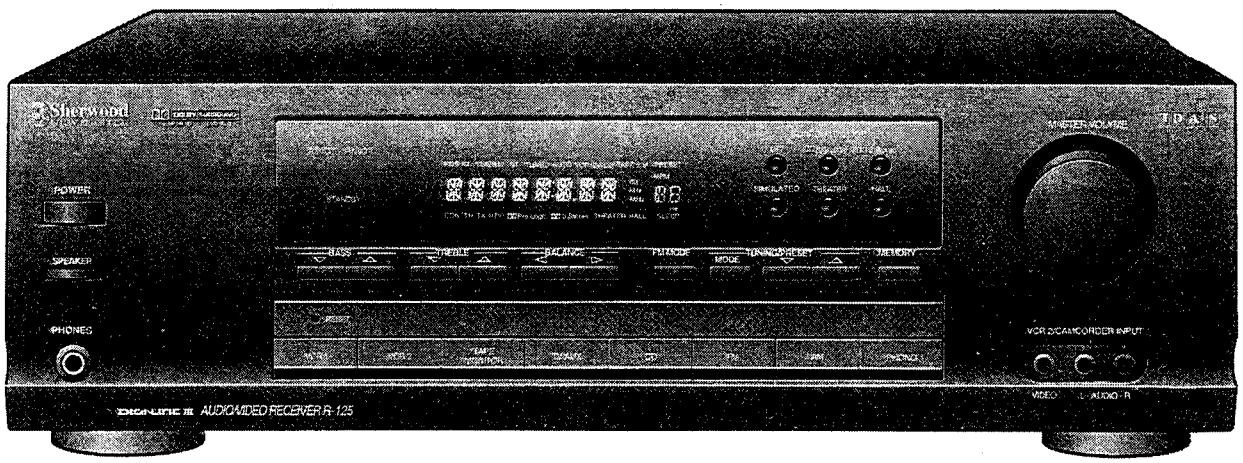
SERVICE MANUAL

SHER-00346

R-125/R-125RDS

AUDIO/VIDEO PRO-LOGIC RECEIVER



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Sherwood®

SAFETY PRECAUTIONS

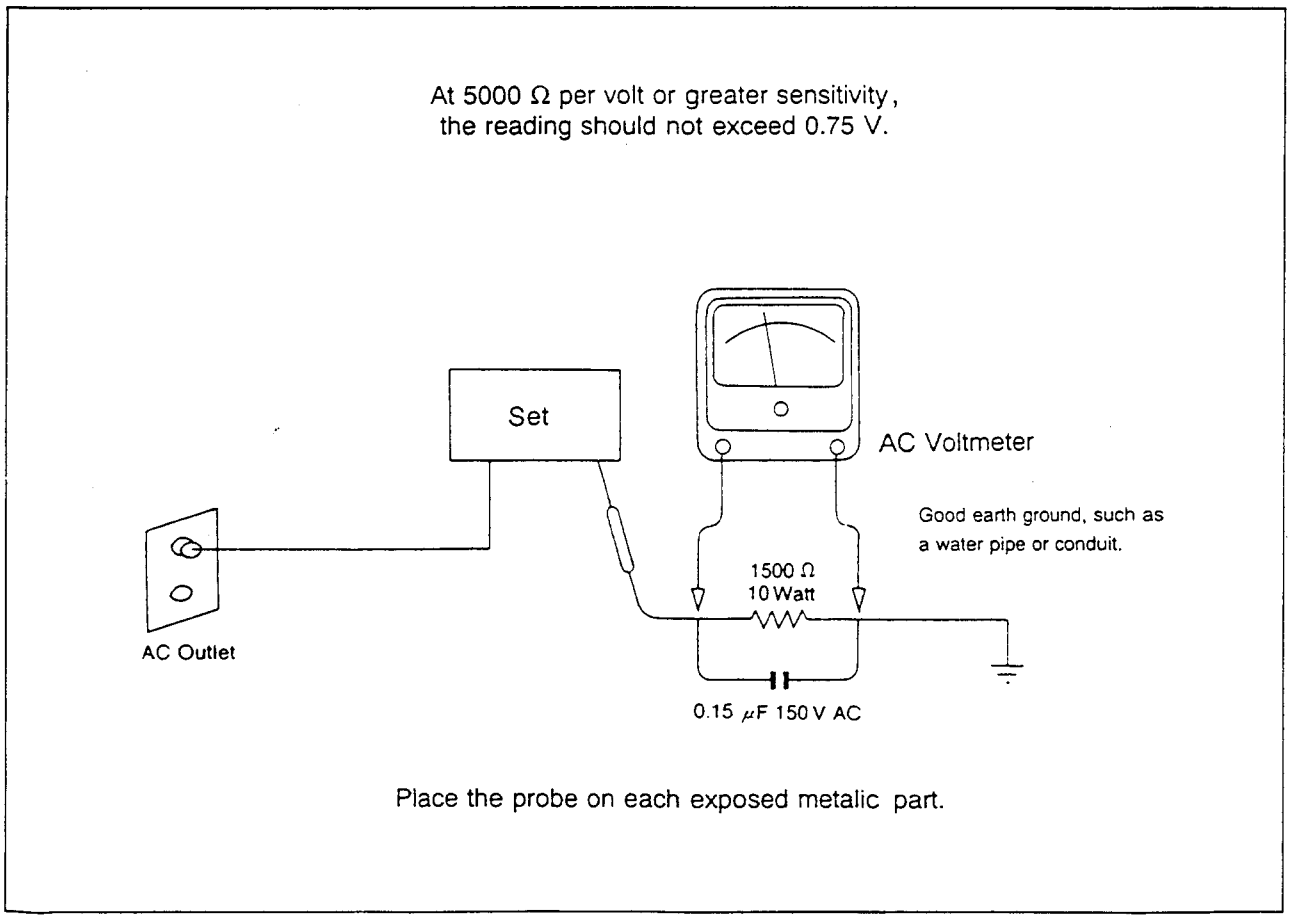
WARNING

Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltge, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by ! in the schematic diagram and the parts list.

   Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet (120 V AC version only). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000 Ω per volt or greater. Then connect a 1500 Ω 10 watt resistor, paralleled by a 0.15 μF 150 V AC capacitor, between a known good earth ground (such as a water pipe, or conduit) and the exposed metalic is parts, one at a time. Measure the AC voltage across the combination of a 1500 Ω resistor and a 0.15 μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metalic part. Voltage measured must not exceed 0.75V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.


At 5000 Ω per volt or greater sensitivity,
the reading should not exceed 0.75 V.
Set
AC Voltmeter
Good earth ground, such as
a water pipe or conduit.
1500 Ω
10 Watt
AC Outlet
0.15 μF 150 V AC
Place the probe on each exposed metalic part.

SPECIFICATIONS

☞ FRONT AMP SECTION

Measuring methods are based on IHF and IEC standard 268-3.
Measurements conditions, unless otherwise noted:

* Output resistive load: 8 ohms/Both channel driven.
* Tone (Bass, Treble), Balance, EQ control: Center Position, Other SW's: OFF.
* Nominal input level: 5 mV for MM, 0.5 mV for MC, 500 mV for general purpose inputs.
* Power figures should be kept minimum 10 min. between 15 and 35 ℃.
* Terminator: 100 ohms for MC, 1 kohms for MM and general purpose inputs.
* Filter: IHF-A filter * R/O: Rated Output

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Input Sensitivity	AUX	1 kHz	-	mV	±50	200
		MM	1 kHz	-	mV	±0.5	3.5
2	Channel Balance	AUX	1 kHz	/O to -40 d	dB	±3	±2
			1 kHz	/O to -40 d	dB	±6	±4
3	Residual Noise	AUX	1 kHz	VOL. min.	mV	1	0.8
4	Total Harmonic Distortion	AUX	50 Hz	45 W/1 W	%	0.2	0.1
			1 kHz	45 W/1 W	%	0.2	0.1
			20 kHz	45 W/1 W	%	0.2	0.1
5	Continuous Average Power at 0.7% THD	AUX	50 Hz	8 ohms	W	46	50
			1 kHz	8 ohms	W	50	52
			20 kHz	8 ohms	W	46	50
6	Inter Modulation Distortion SMPTE	AUX	60 Hz=4	R/O	%	0.25	0.15
			7 kHz=1	1 W	%	0.25	0.15
7	Signal to Noise Ratio	AUX	1 kHz	R/O	dB	85	90
		MM	1 kHz	R/O	dB	68	72
8	Channel Separation	AUX	100 Hz	R/O -3 dB	dB	40	50
			1 kHz	R/O -3 dB	dB	40	50
			10 kHz	R/O -3 dB	dB	35	40
9	Function Crosstalk	CD→AUX	1/10 kHz	R/O -3 dB	dB	60/35	65/40
10	Frequency Response	AUX	-	1 W	Hz~kHz	50~40	40~45
11	Tone Control, ±10 dB	AUX	100 Hz	1 W	dB	±10±2	±10±1
			10 kHz	1 W	dB	±10±2	±10±1
12	Phono Equalization	PHONO	100 Hz	TAPE OUT	dB	RIAA±2	RIAA±1
			10 kHz	TAPE OUT	dB	RIAA±2	RIAA±1
13	Input Overload at 0.5% THD	MM	1 kHz	TAPE OUT	mV	100	115

☞ REAR AMP SECTION

Measurements conditions: Input level 350 mV, Delay time 20 mS, Rear level max., Master volume adj.

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Power Output at 0.7% THD	AUX	1 kHz	8 ohms	W	50	52
2	Total Harmonic Distortion	AUX	1 kHz	1 W	%	1.0	0.7
3	Signal to Noise Ratio						
	DOLBY	AUX	-	R/O	dB	60	65
	THEATER	AUX	-	R/O	dB	60	65
	HALL	AUX	-	R/O	dB	60	65
	SIMULATED	AUX	-	R/O	dB	60	65
4	Frequency Response at ±3 dB (ONLY DOLBY)	AUX	1 kHz	1 W	Hz~kHz	100~6	80~7

☞ CENTER AMP SECTION

Measurements conditions: Input level 350 mV, WIDE mode, Center level max., Master volume adj.

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Power Output at 0.3% THD	AUX	1 kHz	8 ohms	W	50	52
2	Total Harmonic Distortion	AUX	1 kHz	1 W	%	0.3	0.2
3	Signal to Noise Ratio	AUX	-	R/O	dB	73	78
4	Frequency Response DOLBY MODE NORMAL	AUX	-	1 W	Hz~kHz	140~15	120~17
	WIDE	AUX	-	1 W	Hz~kHz	50~15	30~17

☞ VIDEO SECTION

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	Output Level at 75 ohms	VCR1 (1Vp-p)	1 MHz	-	Vp-p	1±0.2	1±0.1
2	Frequency Response	VCR1 (1Vp-p)	1 MHz	-	Hz~MHz	5~6	3~6
3	Signal to Noise Ratio	VCR1 (1Vp-p)	1 MHz	-	dB	40	45
4	Crosstalk	VCR1 (1Vp-p)	1 MHz	-	dB	40	45

☞ AM SECTION

Measuring methods in conformity with IEC standard 315.

Measurements conditions;

* Radio frequency: 1000/999 kHz, Audio frequency: 400 Hz
* Reference level: 5 mV/m, 10 mV/m on 50 ohms, Modulation: 30%
* Test point: TP1=600 kHz, TP2=1000 kHz, TP3=1400 kHz (USA/Canada Version)
* Test point: TP1=594 kHz, TP2=999 kHz, TP3=1404 kHz (Europe Version)

NO	DESCRIPTION		VERSION	UNIT	LIMIT	NOMINAL
1	Tuning Cover Range	LOW~HIGH	USA/Canada	kHz	520~1710	
			Europe	kHz	522~1611	
	Step	AUTO/Man.	USA/Canada	kHz	10/10	
			Europe	kHz	9/9	
2	Usable Sensitivity	TP1		uV/m	1000	800
	S/N=20 dB	TP2		uV/m	1000	800
		TP3		uV/m	1000	800
3	Signal to Noise Ratio			dB	35	40
4	Total Harmonic Distortion			%	2	1
5	Over Load Distortion at 5 mV input, 80% MOD.			%	15	10
6	Frequency Response at -6 dB			Hz	120~2 k	100~2.2 k
7	Selectivity	10 kHz/9 kHz		dB	20	25
8	AGC Figure of Merit			dB	40	45
9	Whistle Modulation at 1 mV/m	$2I_F$		%	20	10
10	Image Rejection	TP3		dB	25	28
12	Auto Stop Level			uV/m	800	+400/-400
13	Output Level		USA/Canada	mV	200	+50/-50
			Europe	mV	160	+50/-50

☞ FM SECTION

Measuring methods in conformity with IEC standard 315.
Measurements conditions FM;

* Radio frequency: 98.1 MHz, Audio frequency: 1 kHz * Reference level: 1 mV on (75 ohms, 300 ohm
* Deviation: MONO=±75 kHz, Stereo=±67.5 kHz±7.5 kHz (USA/Canada Version)
* Deviation: MONO=±40 kHz, Stereo=±40 kHz±7.5 kHz (Europe Version)
* Test point: TP1=90.1 MHz, TP2=98.1 MHz, TP3=106.1 MHz (USA/Canada Version)
* Test point: TP1=90 MHz, TP2=98 MHz, TP3=106 MHz (Europe Version)

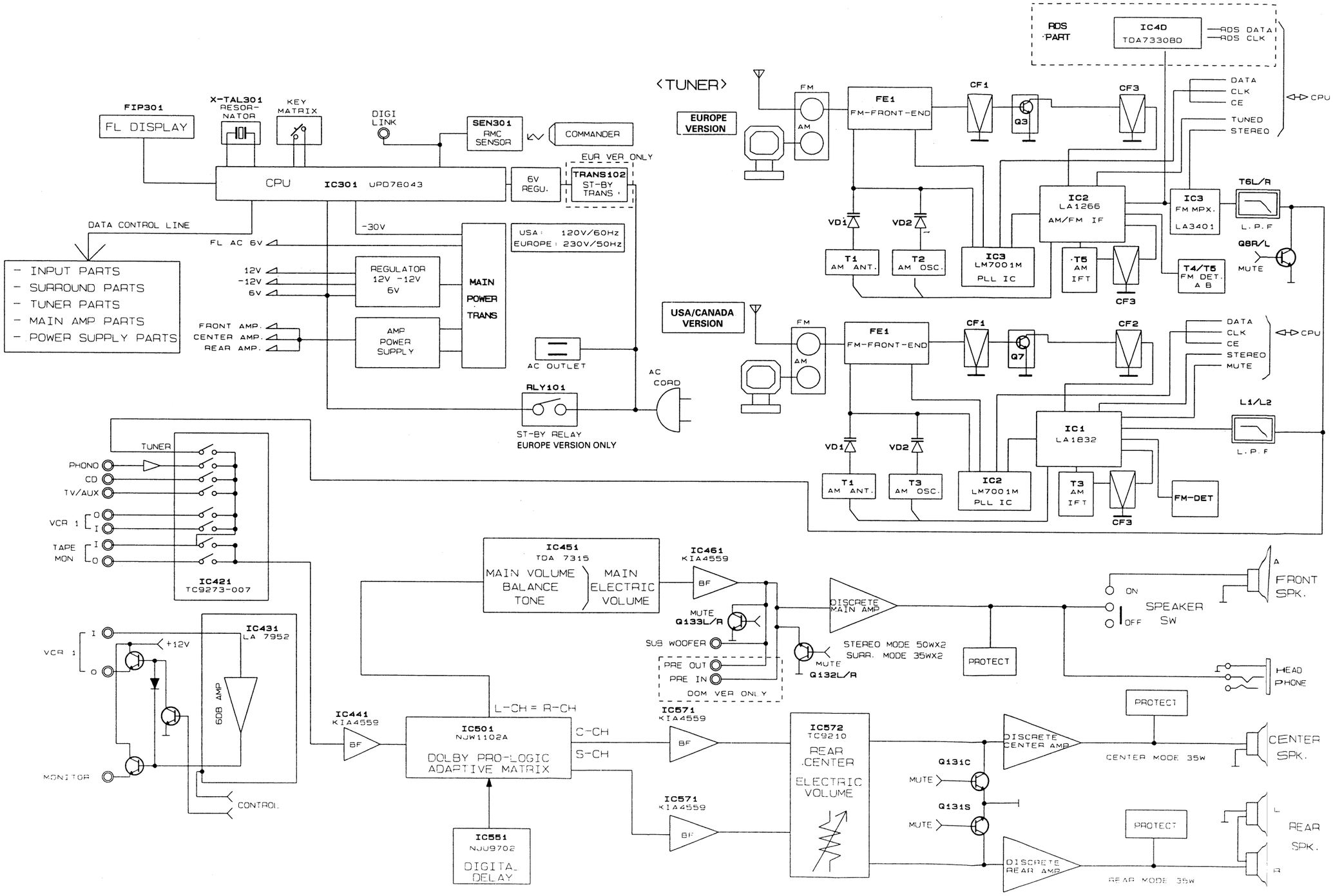
NO	DESCRIPTION		VERSION	UNIT	LIMIT	NOMINAL
1	Tuning Cover Range	LOW~HIGH	USA/Canada	MHz	87.5~107.9	
			Europe		87.5~108	
	Step	AUTO/Man.	USA/Canada	kHz	200/200	
			Europe		100/50	
2	Usable Sensitivity	TP1	USA/Canada	dBf	23.2	19.2
	S/N=30 dB	TP2		dBf	23.2	19.2
		TP3		dBf	23.2	19.2
	S/N=26 dB	TP1	Europe	dBf	20.2	17.2
		TP2		dBf	20.2	17.2
		TP3		dBf	20.2	17.2
3	Full Limiting Sense	Output= -3 dB	USA/Canada	dBf	21.2	17.2
			Europe	dBf	23.2	17.2
4	Auto Stop Level			dBf	31.2	+4/-8
5	Signal to Noise Ratio	MONO	USA/Canada	dB	57	62
			Europe	dB	64	66
		STEREO	USA/Canada	dB	55	60
			Europe	dB	60	65
6	Total Harmonic Distortion	MONO	USA/Canada	%	1.5	1
			Europe	%	0.5	0.2
		STEREO	USA/Canada	%	2	1.5
			Europe	%	1.0	0.8
7	50 dB Quieting Sensitivity	MONO	USA/Canada	dBf	29.2	25.2
		STEREO		dBf	49.2	48.2
	46 dB Quieting Sensitivity	MONO	Europe	dBf	48.3	23.2
		STEREO		dBf	35.2	45.3
8	Frequency Response at ±1.5 dB			Hz/kHz	40/12	20/14
9	Channel Separation	100 Hz	USA/Canada	dB	25	30
			Europe	dB	28	32
		1 kHz	USA/Canada	dB	25	30
			Europe	dB	28	32
		10 kHz	USA/Canada	dB	20	25
			Europe	dB	20	24
10	Spurious Response		USA/Canada	dB	50	60
			Europe	dB	70	80
11	IF Rejection	TP1	USA/Canada	dB	70	75
			Europe	dB	100	120
12	Image Rejection	TP3	USA/Canada	dB	30	35
			Europe	dB	70	80
13	AM Rejection ratio		USA/Canada	dB	30	40
			Europe	dB	50	60
14	Capture ratio			dB	3	2
15	Output Level	MONO		mV	500±150	500±100

☞ GENERAL

Power Consumption	USA/Canada: 150 W, Europe: 460 W
Power Supplies	USA/Canada: AC 120 V, 60 Hz Europe: AC 230 V, 50 Hz
Dimensions (W × H × D)	440 × 125 × 280 mm 17-5/16 × 4-15/16 × 11 inchs
Weight (Net)	8.02 kg (17.68 lbs)

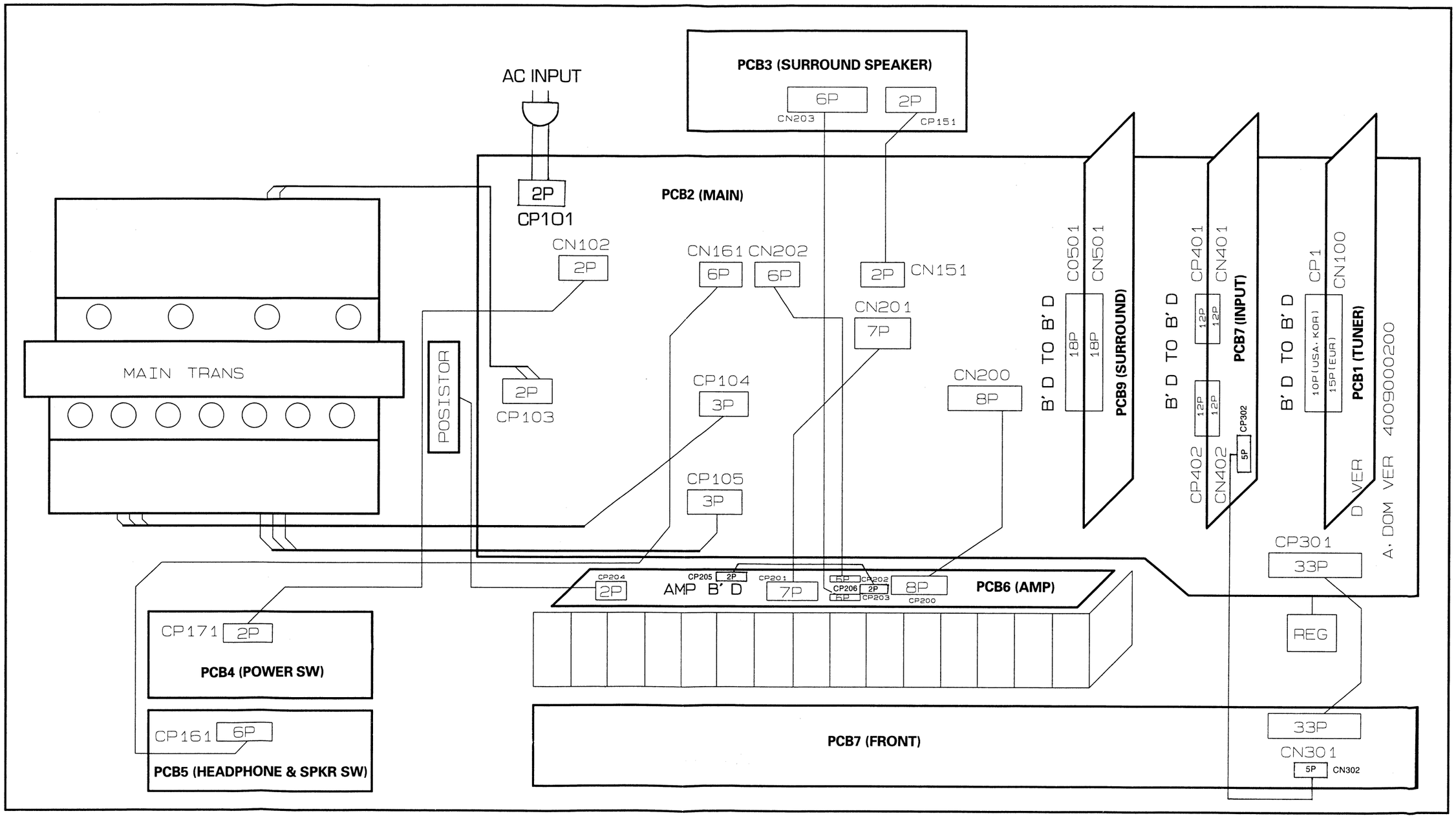
BLOCK DIAGRAM

Model No. : R-125 / R-125RDS



WIRING DIAGRAM

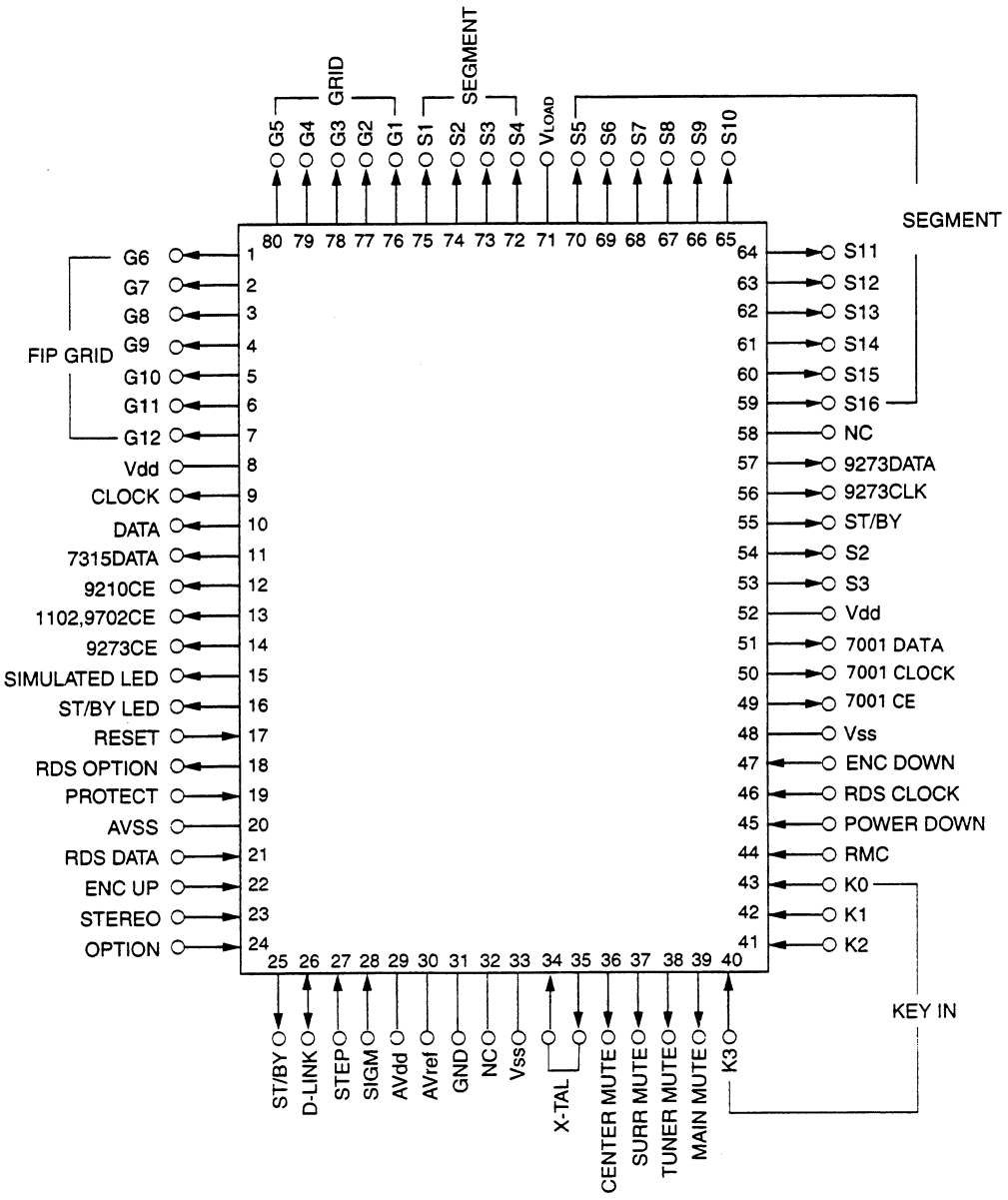
Model No. : R-125 / R-125RDS



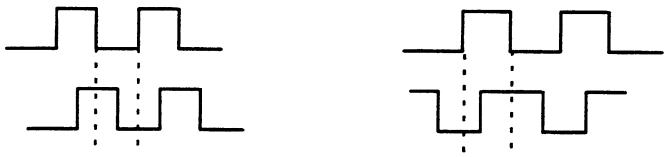
CIRCUIT DESCRIPTION

IC301 : μPD 78043AGF-209 -3B9

1. Pin Description



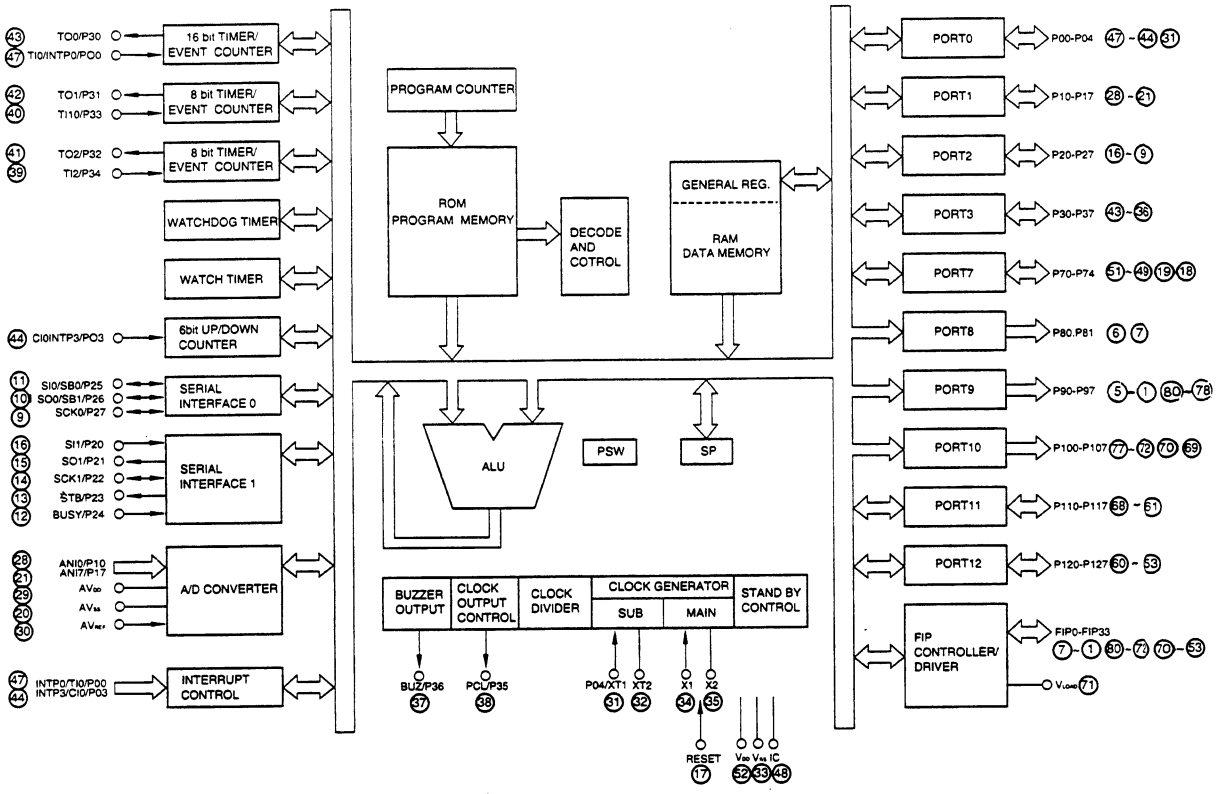
2. Input & Output Terminal Functions

<table>
<tr><th>Pin No.</th><th>Symbol</th><th>Description</th></tr>
<tr><td>1~7</td><td>G6~G12</td><td>Grid signal output for FIP.</td></tr>
<tr><td>8</td><td>Vdd</td><td>+5V power supply.</td></tr>
<tr><td>9</td><td>CLK</td><td>Output, clock signal to TC9273, NJW1102, NJU9702 and TDA7315.</td></tr>
<tr><td>10</td><td>DATA</td><td>Output, data signal to TC9273, NJW1102 and NJU9702.</td></tr>
<tr><td>11</td><td>7315 DATA</td><td>Output, data signal to TDA7315.</td></tr>
<tr><td>12</td><td>9210 CE</td><td>Chip enable output for TC9210.</td></tr>
<tr><td>13</td><td>1102, 9702 CE</td><td>Chip enable output for NJW1102 and NJU9702.</td></tr>
<tr><td>14</td><td>9273 CE</td><td>Chip enable output for TC9273.</td></tr>
<tr><td>15</td><td>SIMULATED LED</td><td>Each time the simulated button is pressed, the "SIMULATED LED" light on or off.</td></tr>
<tr><td>16</td><td>ST/BY LED</td><td>Output for driving STAND BY LED.(At "H", it is active)</td></tr>
<tr><td>17</td><td>RESET</td><td>Input for resetting CPU.(At "H", it is active)</td></tr>
<tr><td>18</td><td>RDS OPTION</td><td>Control output for RDS mode.(This output is used only for R125RDS)</td></tr>
<tr><td>19</td><td>PROTECT</td><td>Signal input for protection.
When "L" is input, it is changed to STAND BY mode.</td></tr>
<tr><td>20</td><td>AVss</td><td>This pin provides the ground potential.</td></tr>
<tr><td>21</td><td>RDS DATA</td><td>RDS data input of TDA7330BD.(This input is used only for R125RDS)</td></tr>
<tr><td>22/47</td><td>ENC UP/DOWN</td><td>Input for main volume up and down.
VOL. UP VOL. DOWN
M. Vol. IN1
M. Vol. IN2
  </td></tr>
<tr><td>23</td><td>STEREO</td><td>Input for lighting the "STEREO" indicator.(At "L", it is active)</td></tr>
<tr><td>24</td><td>OPTION</td><td>Input for selecting R125R, R125RDS and RV-5020R mode.</td></tr>
<tr><td>25</td><td>ST/BY</td><td>When the power is on, control data output is "H".
When the power is off, control data output is "L".</td></tr>
<tr><td>26</td><td>D-LINK</td><td>Input/Output for controlling digi-link III.</td></tr>
<tr><td>27</td><td>STEP</td><td>According to region, input for selecting the frequency bands and steps and FM and AM
Settings are as follows
<table>
<tr><th>REGION</th><th>FREQUENCY BAND</th><th>STEP</th><th>PIN21(IC301)</th></tr>
<tr><td>USA/ CANADA</td><td>FM: 87.5~107.9 MH
AM: 520~1710 kHz</td><td>200 kHz
10 kHz</td><td>5 V</td></tr>
<tr><td>EUROPE</td><td>FM: 87.5~108 MHz
AM: 522~1611 kHz</td><td>50 kHz
9 kHz</td><td>2.5 V</td></tr>
<tr><td>KOREA</td><td>FM: 87.5~107.5 MH
AM: 522~1611 kHz</td><td>200 kHz
9 kHz</td><td>0 V</td></tr>
</table></td></tr>
<tr><td>28</td><td>SIGM</td><td>Input signal of FM.</td></tr>
<tr><td>29</td><td>AVdd</td><td>Power supply of analog A/D converter.</td></tr>
<tr><td>30</td><td>AVref</td><td>Referance voltage of analog A/D converter.</td></tr>
</table>

Pin No.	Symbol	Description
31	GND	Ground
32	NC	Not Used !
33	Vss	This pin provides the ground potential.
34/35	X-TAL	Input/Output for crystal oscilator.
36	CENTER MUTE	Output for center mute. Output is low level under the following conditions. 1. When power is turned on or off. 2. When center mode is on or off. 3. When center mode is switched. 4. When test tone mode is on or off, When the channels is changed the test tone mode. 5. When "L" is inputed to "PROTECTION" of CPU. 6. When "-∞ mute signal" is received from the commander.
37	SURR. MUTE	Output for surround mute. Output is low level under the following conditions. 1. When power is turned on or off. 2. When surround mode is on or off. 3. When test tone mode is on or off, When the channels is changed the test tone mode. 4. When delay time is changed. 5. When "L" is inputed to "PROTECTION" of CPU. 6. When "-∞ mute signal" is received from the commander. 7. When encoder volume or rear volume is minimum level.
38	TUNER MUTE	Output for tuner mute. Output is high level under the following conditions. 1. When power is turned on or off. 2. When tuner band is changed. 3. When tuning up or down button is pressed. 4. When preset button is pressed. 5. When displayed preset number is changed during memory scan. 6. When "L" is inputed to "PROTECTION" of CPU. 7. When "-∞ mute signal" is received from the commander.
39	MAIN MUTE	Output for main mute. Output is low level under the following conditions. 1. When power is turned on or off. 2. When function is changed. 3. When MONO or STEREO is changed. 4. When "L" is inputed to "PROTECTION" of CPU. 5. When "-∞ mute signal" is received from the commander. 6. When encoder volume is minimum level.
40～43	KEY IN3～0	Input data of K_3～K_0 for key scan.
44	RMC	Input for remote control signal.(At "L", it is active)
45	PWR DN	Input for power down.(At "L", it is active)

<table>
<tr><th>Pin No.</th><th>Symbol</th><th>Description</th></tr>
<tr><td>46</td><td>RDS CLOCK</td><td>RDS clock signal input for TDA7330B.(This input is used only for R125RDS)</td></tr>
<tr><td>48</td><td>Vss</td><td>Ground</td></tr>
<tr><td>49</td><td>7001 CE</td><td>Chip enable output for LM7001.</td></tr>
<tr><td>50/51</td><td>7001 CLK/DATA</td><td>CLOCK/DATA signal output for LM7001.</td></tr>
<tr><td>52</td><td>Vdd</td><td>+5V power supply.</td></tr>
<tr><td>53/54</td><td>S3/S2</td><td>Output to select the video signal VCR1 or VCR2.
Output data for each mode is as follows.
<table>
<tr><th>MODE</th><th>S2</th><th>S3</th><th>REMARKS</th></tr>
<tr><td>VCR1</td><td>L</td><td>H</td><td>Initial settings</td></tr>
<tr><td>VCR2</td><td>H</td><td>L</td><td></td></tr>
<tr><td>OTHERS</td><td>△</td><td>△</td><td>△: Previous state</td></tr>
</table>
* Last memory function is available</td></tr>
<tr><td>55</td><td>ST/BY</td><td>When the power is on, control data output is "H".
When the power is off, control data output is "L" and last memory is activated.</td></tr>
<tr><td>56/57</td><td>9273 CLK/DATA</td><td>Output, clock/data signal to TC9273.</td></tr>
<tr><td>58</td><td>NC</td><td>Not Used !</td></tr>
<tr><td>59/60</td><td>SEG 16/15</td><td>Segment signal output for FIP.</td></tr>
<tr><td>61～68</td><td>SEG14～7</td><td>Segment signal output for FIP and key scan.</td></tr>
<tr><td>71</td><td>Vload</td><td>-30V Power supply for FIP.</td></tr>
<tr><td>69～75</td><td>SEG6～1</td><td>Segment signal output for FIP.</td></tr>
<tr><td>76～80</td><td>GRID1～5</td><td>Grid signal output for FIP.</td></tr>
</table>

3. Block Diagram



4. Key Matrix

	KSCAN0 PIN 61	KSCAN1 PIN 62	KSCAN2 PIN 63	KSCAN3 PIN 64	KSCAN4 PIN 65	KSCAN5 PIN 66	KSCAN6 PIN 67	KSCAN7 PIN 68
KEY IN0 PIN 43	DISPLAY	SIMUL	3STEREO	PROLOGIC	OFF	MEMORY	MODE	FM MODE
KEY IN1 PIN 42	RDS	THEATER	HALL	TV/AUX	BASS (△)	BASS (▽)	BALANCE (△)	BALANCE (▽)
KEY IN2 PIN 41	AF	PHONO	FM	POWER	TREBLE (△)	TREBLE (▽)	TUNNING (△)	TUNNING (▽)
KEY IN3 PIN 40	PTY	AM		TAPE MON	CD		VCR2	VCR1

ALIGNMENT PROCEDURES

TUNER

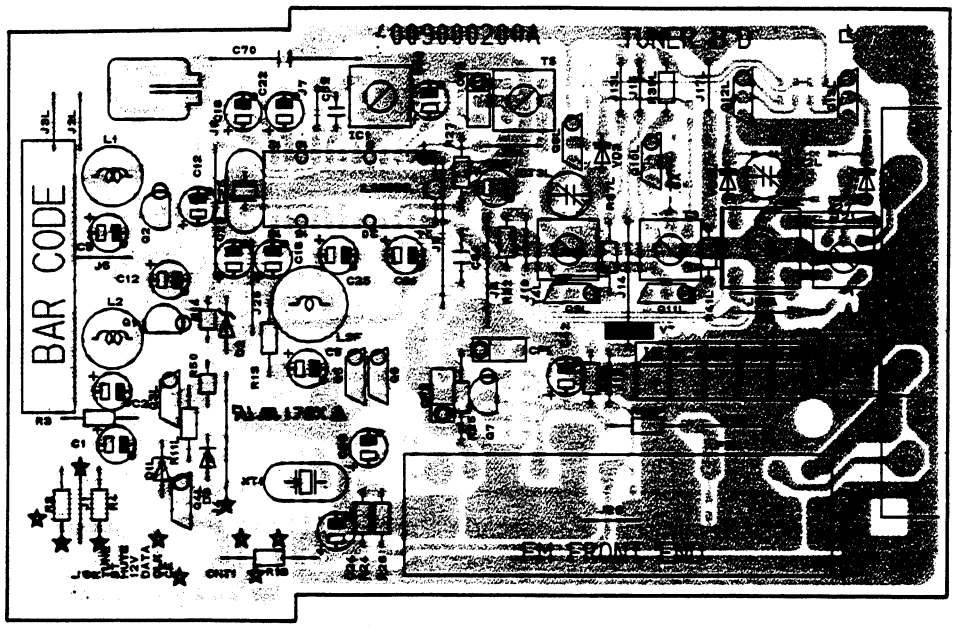
1. Equipment Required

- AM Standard Signal Generator (AM SSG)
- Oscilloscope
- AC Voltmeter
- FM Standard Signal Generator (FM SSG)
- Stereo Modulator
- Audio Generator
- Distortion Meter
- DC Voltmeter
- Frequency Counter

Note : Disconnect external FM antenna prior to alignment.

2. Non RDS Version Alignment

2-1. Alignment and Test Point



2-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30 %
- RF signal frequency : 400 Hz
- Switch : Press the BAND button to AM

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Voltage	520 kHz (522 kHz)	520 kHz (522 kHz)	DC Volt meter to J14	T3 AM OSC(R)	DC 1±0.2 V
2	RF Tuning	600 kHz (603 kHz)	600 kHz (603 kHz)	AC voltmeter to speaker terminal of L or R channel	T1 MW ANT(W)	Maximize audio output
		* Feed signal should be fed to loop antenna through the test loop antenna 60 cm distant from the appliance.				
3	IF	1000 kHz (999 kHz)	1000 kHz (999 kHz)	IF genescope to speaker terminal of L or R channel	T5 AM IFT	Symmetrical curve on AM IF genescope

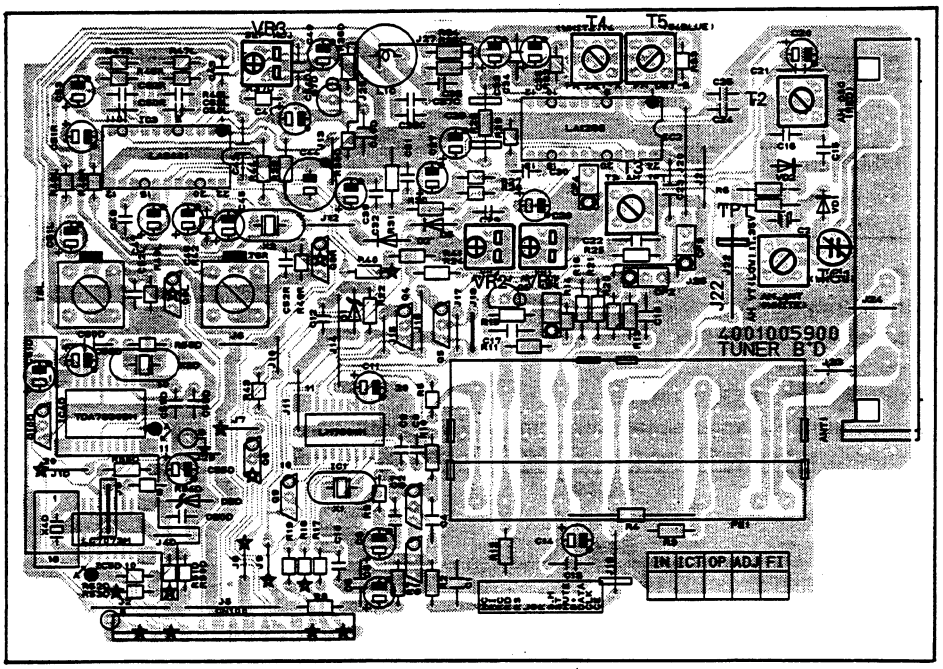
2-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- RF signal frequency : 1 kHz
- Signal generator deviation : 75 kHz
- Switch : Press the BAND button to FM

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	THD (Mono)	98.1 MHz (98.0 MHz) 1000 ㎶/m	98.1 MHz (98.0 MHz)	Distortion meter to speaker terminal of L or R channel	T6 FM-DET	Minimize distortion

3. RDS Version Alignment

3-1. Alignment and Test Point



3-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30 %
- RF signal frequency : 400 Hz
- Switch : Press the BAND button to AM

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Voltage	522kHz	522kHz 1)	DC Volt meter to J22 (TP1)	T2 AM OSC(R)	DC1.2V±0.2V
2	RF Tuning	594 kHz	594 kHz 1)	AC voltmeter and oscilloscope to speaker terminal of L or R channel	T1 MW ANT(W)	Maximize audio output
		1404 kHz	1404 kHz 2)		TC1	
		* Feed signal should be fed to loop antenna through the test loop antenna 60 cm distant from the appliance. * Repeat the step 1) and 2) until no further improvement occurs.				

3	IF	999kHz	999kHz	IF genescope to speaker terminal of L or R channel	T3 AM IFT	Symmetrical curve on AM IF genescope
4	Tuned Level	999kHz 800 μV/m	999kHz		VR1	"Tuned" flag in the FL display light on

3-4. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator deviation : 40 kHz
- RF signal frequency : 1 kHz
- Switch : Press the BAND button to FM and the FM MODE button to MONO

Step	Subject	Signal Generator Frequency	Set Frequency Setting	Equipment Connection	Adjustment Point	Adjust for
1	Tuning Band Widt	98.0 MHz	98.0 MHz	DC Volt meter to R26(PCB1)	T4	Zero reading on DC Volt meter
2	THD	98.0 MHz	98.0 MHz	Distortion meter to TAPE OUT jack of L or R channel	T5	Minimize distortion
3	Tuned Level	98.0 MHz SSG output level : 10 μV/m	98.0 MHz		VR2	"Tuned" flag in the FL display light on

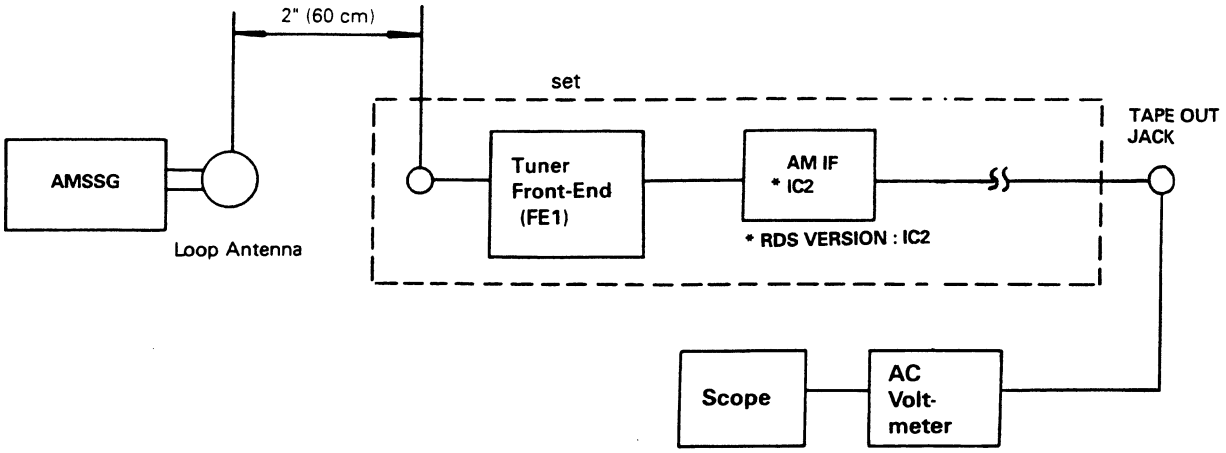
3-5. MPX Alignment

- Signal generator frequency : 98 MHz
- Signal generator deviation : 40 kHz
- RF signal frequency : 1 kHz
- Signal generator output level : 1000 μV/m
- Connect signal generator to FM antenna terminal through FM dummy antenna (75 Ω)
- Switch : Press the BAND button to FM and the FM MODE button to STEREO

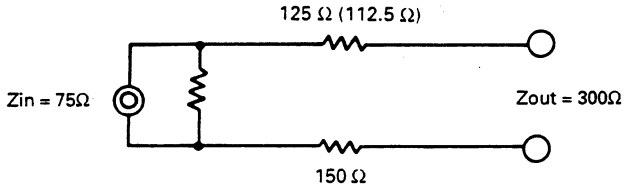
Step	Subject	19 kHz Modulation Level	Signal Generator Setting	Equipment Connection	Adjustment Point	Adjust for
1	Seperation R → L	8 % Modulation	Pilot on	AC voltmeter to speaker terminal of R channel	VR3	Set AC voltmeter to 0 dB
				AC voltmeter to speaker terminal of L channel		AC voltmeter reading should be at least 20 dB below
2	Seperation L → R	8 % Modulation	Pilot on	AC voltmeter to speaker terminal of L channel	VR3	Set AC voltmeter to 0 dB
				AC voltmeter to speaker terminal of R channel		AC voltmeter reading should be at least 20 dB below
If you could not obtain -20 dB readings in steps 1 and 2, readjust VR3 until you abtain -20 dB readings for both steps 3 and 4. Norminal is -25 dB.						

4. Equipment Connection

4-1. AM Alignment Connection

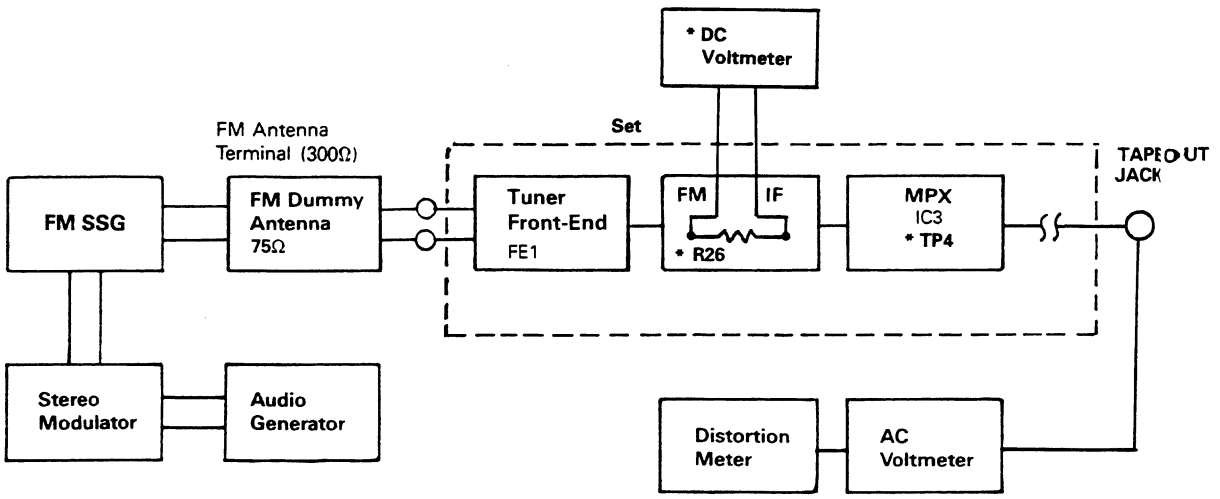


4-2. FM Dummy Antenna



FM Dummy Antenna to 300Ω Antenna terminal of system.

4-3. FM RF/IF and MPX Alignment Connection



TROUBLESHOOTING

Symptom	Cause and Remedy
Receiver inoperative. (FL indicator does not light.)	A) Faulty AC power cord. Replace. B) Defectve the power switch. Replace. C) Broken wire in the power transformer. Replace the power transformer. D) Blown fuse. Replace the fuse.
Fuse blows when power is turned on.	A) Defective power transformer. Replace. B) Short on the primary or secondary of the transformer circuitry. Repair the short. C) Damaged rectifier D120 or damaged transistor Q109. Replace the defective component(s). D) Short circuit in the amplifier circuit. Replace the shorted component(s) in the amplifier circuit.
Power indicator lights but no sound from both channels.	A) Defect in transistor Q210 L/R, Q205L/R on the Amp Board. Replace the defective component(s).
One channel does not work when volume is at maximum with a test signal applied to the center terminal of volume control of the dead channel.	A) Defect in transistors Q210 L/R, Q205 L/R on the Main Amp Board Locate and correct the defect. B) Break in copper foil of printed circuit board. Repair the trace. C) Short in speaker output terminal. Repair or replace.
Speaker works normally but headphones inoperative.	A) Headphone plug does not mate with jack. Replace the jack. B) Defective resistor R161L/R. Replace.
FM inoperative	A) Defective front-end (FE). Replace. B) Defective FM switch. Replace the switch. C) Defective transistor Q3 and ICS (IC2,IC3). Replace the defective transistor or IC(s). D) Defective coil T4,T5. Replace the coil(s). E) Defective lead-in. Repair or replace the lead-in. F) Ceramic filters CFI,CF3 defective. Replace the defective ceramic filter(s). G) Defective controller circuit component. Replace.

Symptom	Cause and Remedy
Poor multiplex separation.	A) Improper adjustment. Readjust VR3. (Refer to MPX Alignment.) B) IC3 defective. Replace. C) Variable resistor VR3 defective. Replace the variable resistor.
STEREO indicator does not light.	A) Defective indicator in FL. Replace. B) Improper adjustment of VR2 of tuner board. Make readjustment. C) Defective IC2. Replace the defective component.
FM volume in sufficient.	A) If volume from both L and R channels is not loud enough : Front end section defective. Faulty IC2, Coil T4,T5. Defective C838 of Tuner Board. If sound of one channel is not loud enough: Defective VR3.
FM Mono has no effect.	A) Defective FM MODE switch. Replace.
AM inoperative.	A) Damaged IC2 of tuner board. Replace. B) Defective T1,T2,T3 or CF4 of Tuner Board. Replace the defective component(s). C) Defective AM switch. Replace. D) Defective varicap diodes VD1 Replace varicap diods(s). E) Damaged AM loop antenna. Repair or replace. F) Defective controller circuit component. Replace.
Bass control has no effect	A) Variable resistor BASS defective. Replace. B) Defective IC451. Replace the defective component(s).

Symptom	Cause and Remedy
Treble control has no effect.	A) Variable resistor TREBLE defective. B) Defective IC451. Replace the defective components(s).
Auto tune inoperative. (UP/DOWN)	A) Poor contact in Up/Down key. Repair or replace. B) Defective IC301. Replace. C) Defective tuner circuit components. Replace. D) In case of FM only, improper adjustment of FM front-end. Readjust.
Manual tune inoperative. (UP/DOWN) (AM or FM)	A) Poor contact in Up/Down key. Replace. B) Defective IC301. Replace.
Memory setting inoperative.	A) Poor contact in memory keys 1-10. Replace. B) Defective IC301. Replace the defective component.
FL inoperative.	A) FL defective. Replace. B) Defective IC301. Replace C) Defective X-TAL301. Replace.
Noisy volume control.	A) Defective encoder volume. Replace. B) Defective capacitors C303 or C304 Replace the defective capacitor(s).
Remote Control Unit inoperative.	A) Weak battery. Replace. B) Defective. Replace. C) Defective IC301 (CPU Board) Replace.

MECHANICAL PARTS LIST (I)

Model No. : R-125

Ref. No	Description	Part No.	Q'ty	Version
	PACKAGE			
	BOX CARTON	049605257903	1	
	PLOY BAG	9705001550	1	
	FILM SOFT PE	9715000120	1	
	CUSHION PLOY	9722026610	1	
	ACCESSORIES			
	ANTENNA AM LOOP STAND TYPE	2608207361	1	USA/Canad
	ANTENNA AM LOOP STAND TYPE	2608207360	1	Europe
	JUMPER PLUG	4328204210	1	
	ANTENNA WIRE DIPOLE	4348000320	1	USA/Canad
	ANTENNA CORD FM	4348001110	1	Europe
	COMMANDER ASS'Y	541810129021	1	
	BATTERY 1.5V AA(R6M)	5518001610	2	
	MANUAL INSTRUCTION	9007018693	1	USA/Canad
	MANUAL INSTRUCTION	9007018691	1	Europe
	CABINET & CHASSIS			
1	PANEL FRONT	048501040413	1	USA/Canad
(1)	PANEL FRONT	048501040414	1	Europe
2	BADGE	048535045811	1	
3	WINDOW DISPLAY	048553025721	1	USA/Canad
(3)	WINDOW DISPLAY	048553025711	1	Europe
4	DECORATION CAP	048523014012	1	USA/Canad
(4)	DECORATION CAP	048523014011	1	Europe
5	BUTTON FUNCTION, 8key	048543073212	1	USA/Canad
(5)	BUTTON FUNCTION, 8key	048543073211	1	Europe
6	KNOB MAIN	8543061910	1	
7	BUTTON TUNING, 11key	8543073510	1	
8	BUTTON SURROUND, 6key	8543073410	1	
9	INDICATOR LED	8555054310	1	
10	INDICATOR	8555050310	1	
11	JACK PHONE (HTJ064-11D)	4438005010	1	
12	SWITCH PUSH	4628043810	1	
13	BUTTON PUSH, SPEAKER	8545126210	1	
14	BRACKET, SWITCH	6505142910	1	
15	KNOB POWER	8545126010	1	
16	SWITCH (ESB-8236V)	4628055910	1	
17	HOLDER FL	6043010210	1	
18	SWITCH TACT	4658003710	26	
19	SWITCH ROTARY, ENCODER	4608400210	1	
20	JACK RCA, 3P, VCR	4438109810	1	
21	HEATSINK POWER	7502009210	1	
22	CHASSIS MAIN	6121615410	1	
23	RUBBER SPONGE	6715026320	2	
24	FOOT, Hot Stamping	046033102611	2	USA/Canad
(24)	FOOT, Hot Stamping	046033102511	2	Europe
25	FOOT, Black	6033102510	2	
26	SPACER	6705024310	3	
27	SPONGE	6715025310	2	
⚠ 28	OUTLET AC, 1P	4448104110	1	USA/Canad
⚠ (28)	OUTLET AC, 1P	4448103610	1	Europe
29	TERMINAL SPEAKER, 4P	4408109710	1	
30	JACK RCA, 2P	4438105040	1	
31	JACK RCA, 2P	4438115010	1	
32	TERMINAL SPEAKER, 2P	4408109510	1	
33	TERMINAL SPEAKER, 4P	4408109610	1	
34	FASTENER	6528302010	1	
35	BRACKET INSERT	6165144210	1	
36	JACK RCA, 4P	4438108130	2	
37	JACK RCA, 9P	4438114520	1	
38	ANTENNA TERMINAL	4408107120	1	USA/Canad
(38)	ANTENNA TERMINAL	4408108210	1	Europe
39	CHASSIS BACK	046102046722	1	USA/Canad
(39)	CHASSIS BACK	046102046752	1	Europe
40	STOPPER HOLDER	6518002310	1	
⚠ 41	CORD AC POWER	4308001410	1	USA/Canad
⚠ (41)	CORD AC POWER	4308000430	1	Europe
42	GROUND TERMINAL	4408103720	1	
43	COVER INSULATION	4835024110	1	
44	COVER INSULATION	4833006610	1	
45	COVER TOP	046122021541	1	
	HARDWARE KIT			
S1-S24	SCREW #B BTT 3x8B	8179130083	24	
S25-S27	SCREW #2 WPTC 3x8Y	8159230101	3	
S28-S35	SCREW HEATSINK	8195000310	8	
S36-S40	SCREW #B BTT 3x8B	8179130083	5	
S41-S43	SCREW #2 WPTC 3x8Y	8159230101	3	
S44-S46	SCREW #B BTT 3x8B	8179130083	3	
S47-S50	SCREW BSAM 4x8B	8109440083	4	
S51-S53	SCREW #2 BTC 3x20Y	8109230201	3	
S54	SCREW #B BTT 3x8B	8179130083	1	
S55/S56	SCREW #B WPTT 3x6Y	8179230061	2	
S57-S61	SCREW #B BTT 3x8B	8179130083	5	

Ref. No	Description	Part No.	Q'ty	Version
S62	SCREW GROUND	8155000710	1	
S63	SCREW #B BTT 3x8B	8179130083	1	
S64	SCREW GROUND	8155000710	1	
S65	SCREW #B BTT 3x8B	8179130083	1	
S66	SCREW GROUND	8155000710	1	
S67-S70	SCREW #B BTT 3x8B	8179130083	4	
S71	SCREW GROUND	8155000710	1	
S72/S73	SCREW #B BTT 3x8B	8179130083	2	
S74/S75	SCREW GROUND	8155000710	2	
S76-S86	SCREW #B BTT 3x8B	8179130083	11	
S87-S90	SCREW BSAM 4x8B	8109440083	4	
	MISCELLANEOUS			
	⚠ POWER TRANS, 120V 60HZ	2828101077	1	USA/Canad
	⚠ POWER TRANS, 230V 50HZ	2828101087	1	Europe
	CARD CABLE	4118633209	1	
PCB1	P.C.BOARD TUNER	4009000200	1	USA/Canad
PCB1	P.C.BOARD TUNER	4001005901	1	Europe
PCB2	P.C.BOARD MAIN	4001004400	1	
PCB3	P.C.BOARD SURROUND SPEAKER	4001004420	1	
PCB4	P.C.BOARD POWER SW	4001004450	1	
PCB5	P.C.BOARD HEADPHONE & SPKR SW	4001004460	1	
PCB6	P.C.BOARD AMP	4001100300	1	
PCB7	P.C.BOARD FRONT	4001004500	1	
PCB8	P.C.BOARD INPUT	4005013000	1	
PCB9	P.C.BOARD SURROUND	4005012900	1	

PRODUCT SAFETY NOTICE

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MECHANICAL PARTS LIST (II)

Model No. : R-125RDS

Ref. No	Description	Part No.	Q'ty
	PACKAGE		
	BOX CARTON	049605257903	1
	POLY BAG	9705001550	1
	FILM SOFT PE	9715000120	1
	CUSHION POLY	9722026610	1
	ACCESSORIES		
	ANTENNA AM LOOP STAND TYPE	2608207360	1
	ANTENNA CORD FM	4348001110	1
	COMMANDER ASS'Y	541810129021	1
	MANUAL INSTRUCTION	9007018691	1
	CABINET & CHASSIS		
1	PANEL FRONT	048501040415	1
2	BADGE	048535045811	1
3	WINDOW DISPLAY	048553025711	1
4	DECORATION CAP	048523013911	1
5	BUTTON FUNCTION, 8key	048543073211	1
6	KNOB MAIN	8543061910	1
7	BUTTON RDS, 5key	8543073310	1
8	BUTTON TUNING, 11key	8543073510	1
9	BUTTON SURROUND, 6key	8543073410	1
10	INDICATOR LED	8555054310	1
11	INDICATOR	8555050310	1
12	JACK PHONE	4438005010	1
13	SWITCH PUSH	4628043810	1
14	BUTTON PUSH, SPEAKER	8545126210	1
15	BRACKET SWITCH	6505142910	1
16	KNOB POWER	8545126010	1
17	SWITCH (ESB-8236V)	4628055910	1
18	HOLDER FL	6043010210	1
19	SWITCH TACT	4658003710	31
20	SWITCH ROTARY, ENCODER	4608400210	1
21	JACK RCA, 3P, VCR	4438109810	1
22	HEATSINK POWER	7502009210	1
23	CHASSIS MAIN	6121615410	1
24	RUBBER SPONGE	6715026320	2
25	FOOT, HOT STAMPING	046033102511	2
26	FOOT, BLACK	6033102510	2
27	SPACER	6705024310	3
28	SPONGE	6715025310	2
⚠ 29	OUTLET AC, 1P	4448103610	1
30	TERMINAL SPEAKER, 4P	4408109710	1
31	JACK RCA, 2P	4438105040	1
32	JACK RCA, 2P	4438115010	1
33	TERMINAL SPEAKER, 2P	4408109510	1
34	TERMINAL SPEAKER, 4P	4408109610	1
35	FASTENER	6528302010	1
36	BRACKET INSERT	6165144210	1
37	JACK RCA, 4P	4438108130	2
38	JACK RCA, 9P	4438114520	1
39	ANTENNA TERMINAL	4408108220	1
40	CHASSIS BACK	046102046753	1
41	STOPPER HOLDER	6518002310	1
⚠ 42	CORD AC POWER	4308000430	1
43	GROUND TERMINAL	4408103720	1
44	COVER INSULATION	4835024110	1
45	COVER INSULATION	4833006610	1
46	COVER TOP	046122021541	1
	HARDWARE KIT		
S1-S24	SCREW #B BTT 3x8B	8179130083	24
S25-S27	SCREW #2 WPTC 3x8Y	8159230101	3
S28-S35	SCREW HEATSINK	8195000310	8
S36-S40	SCREW #B BTT 3x8B	8179130083	5
S41-S43	SCREW #2 WPTC 3x8Y	8159230101	3
S44-S46	SCREW #B BTT 3x8B	8179130083	3
S47-S50	SCREW BSAM 4x8B	8109440083	4
S51-S53	SCREW #2 BTC 3x20Y	8109230201	3
S54	SCREW #B BTT 3x8B	8179130083	1
S55/S56	SCREW #B WPTT 3x6Y	8179230061	2
S57-S61	SCREW #B BTT 3x8B	8179130083	5
S62	SCREW GROUND	8155000710	1
S63	SCREW #B BTT 3x8B	8179130083	1
S64	SCREW GROUND	8155000710	1
S65	SCREW #B BTT 3x8B	8179130083	1
S66	SCREW GROUND	8155000710	1
S67-S70	SCREW #B BTT 3x8B	8179130083	4
S71	SCREW GROUND	8155000710	1
S72/S73	SCREW #B BTT 3x8B	8179130083	2
S74/S75	SCREW GROUND	8155000710	2
S76-S86	SCREW #B BTT 3x8B	8179130083	11
S87-S90	SCREW BSAM 4x8B	8109440083	4

Ref. No	Description	Part No.	Q'ty
	MISCELLANEOUS		
⚠	POWER TRANS, 230V 50HZ	2828101087	1
	CARD CABLE	4118633209	1
PCB1	P.C.BOARD TUNER	4001005901	1
PCB2	P.C.BOARD MAIN	4001004400	1
PCB3	P.C.BOARD SURROUND SPEAKER	4001004420	1
PCB4	P.C.BOARD POWER SW	4001004450	1
PCB5	P.C.BOARD HEADPHONE & SPKR SW	4001004460	1
PCB6	P.C.BOARD AMP	4001100300	1
PCB7	P.C.BOARD FRONT	4001004500	1
PCB8	P.C.BOARD INPUT	4005013000	1
PCB9	P.C.BOARD SURROUND	4005012900	1

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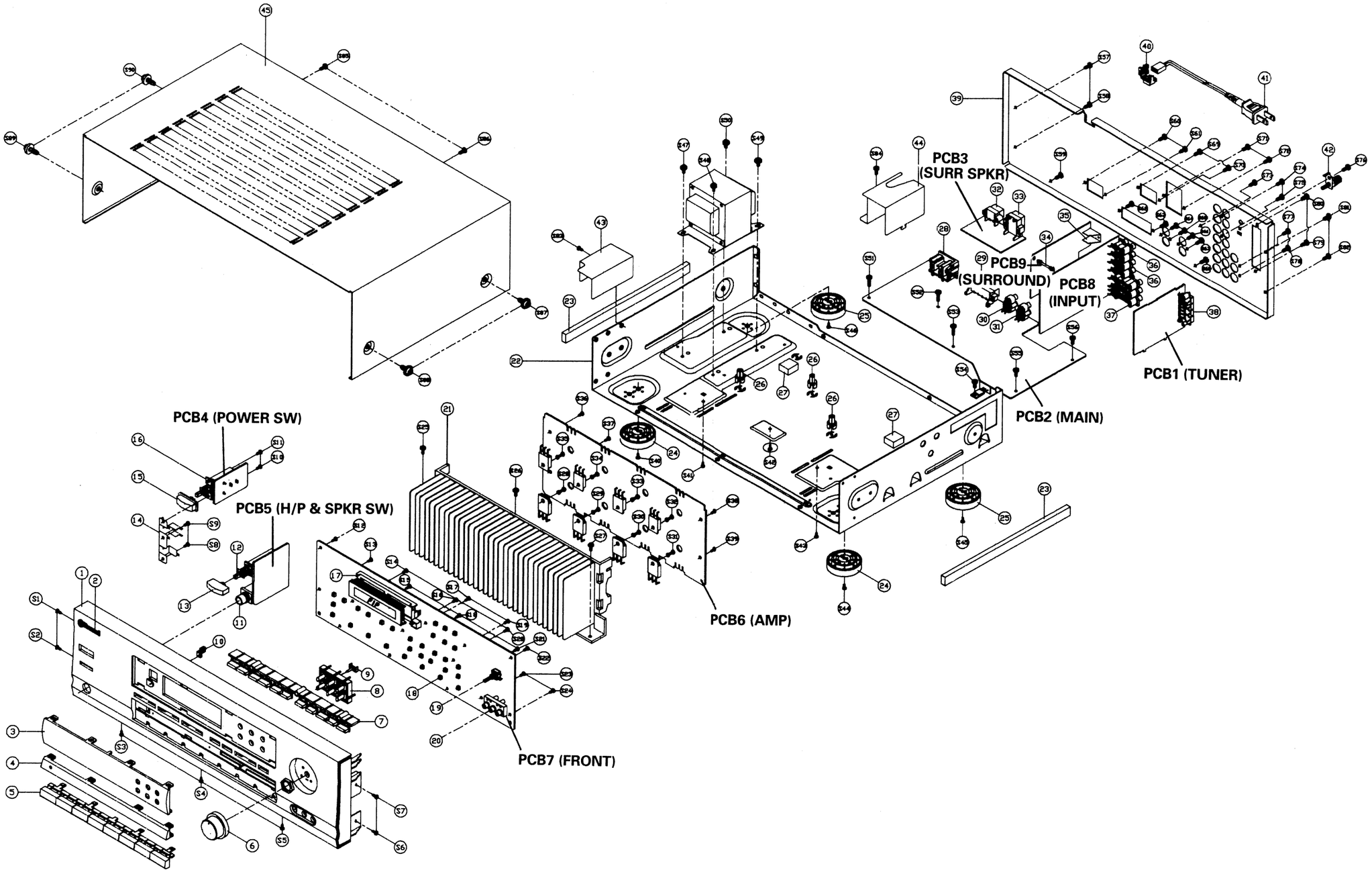
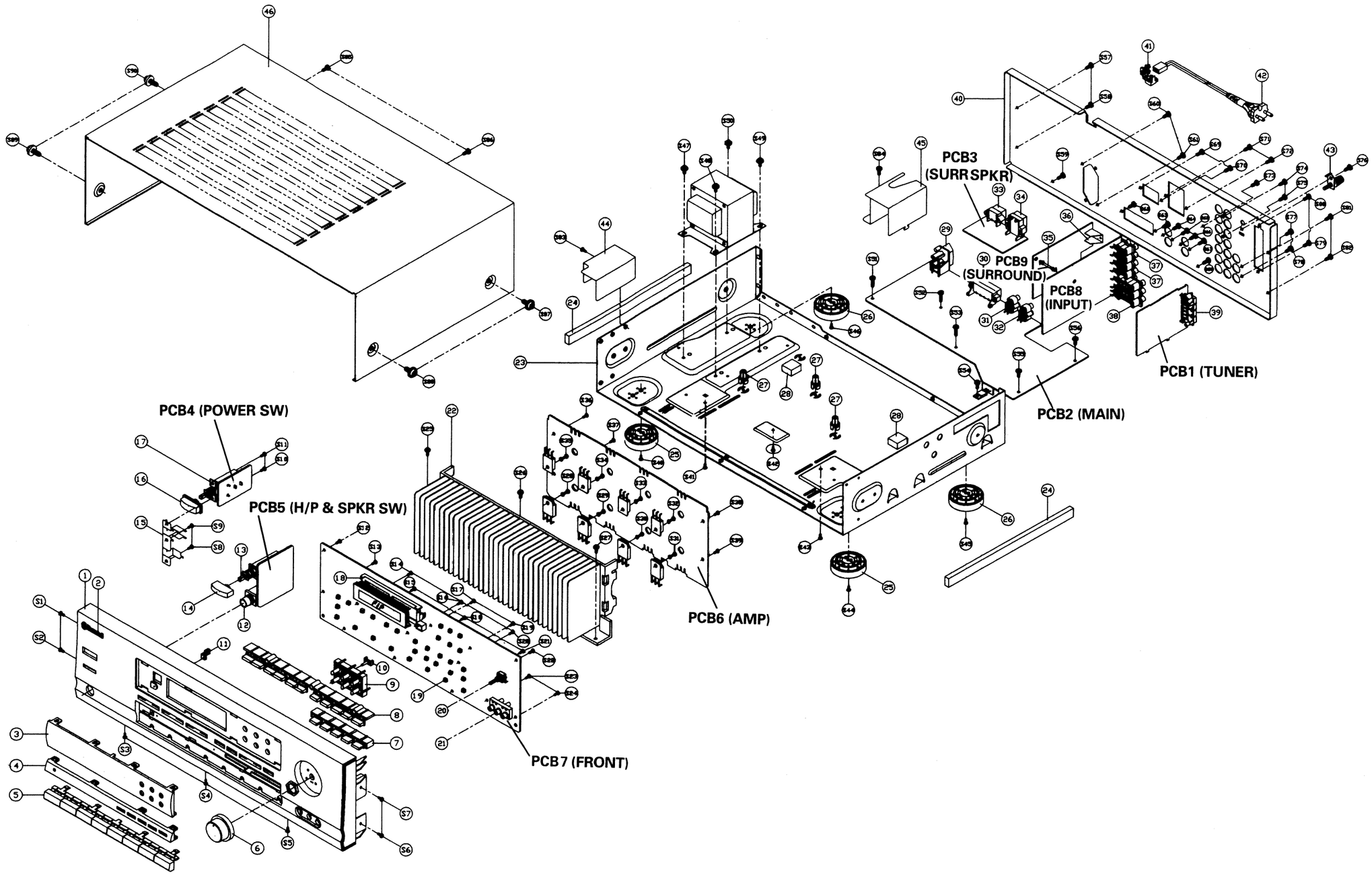
EXPLODED VIEW (I)

Model No. : R-125



EXPLODED VIEW (II)

Model No. : R-125RDS



ELECTRICAL PARTS LIST (I)

Model No. : R-125

Ref. No	Description				Part No.	Q'ty	Version
PCB1	**ASSEMBLY P.C.BOARD TUNER(EUROPE VERSION)**						
	CAPACITORS						
C1	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	1	
C2	CERAMIC DISC	0.047	pF	50 V Z	3579473530	1	
C3	ELECTROLYTIC SG	3.3	uF	50 V M	3479333971	1	
C4	CERAMIC TUBULAR	10000	pF	16 V Z	3519103915	1	
C5	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C6	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	1	
C7	CERAMIC TUBULAR	10000	pF	16 V Z	3519103915	1	
C8/C9	CERAMIC DISC, CH	18	pF	50 V J	3528180210	2	
C10	CERAMIC DISC	100	pF	50 V J	3579101130	1	
C11	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C12	CERAMIC DISC	0.022	pF	50 V Z	3579223530	1	
C13	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	1	
C14	ELECTROLYTIC SG	100	uF	16 V M	3479310131	1	
C15	PLOY	470	pF	50 V J	3615471110	1	
C16	CERAMIC CHIP, CH	15	pF	50 V Z	3539150120	1	
C17/C18	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	2	
C20	ELECTROLYTIC SG	10	uF	35 V M	3479310061	1	
C21/C22	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	2	
C23	CERAMIC TUBULAR	10000	pF	16 V Z	3519103915	1	
C24/C25	CERAMIC DISC	0.022	pF	50 V Z	3579223530	2	
C26	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	1	
C27	ELECTROLYTIC SG	3.3	uF	50 V M	3479333971	1	
C28	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	1	
C29/C30	CERAMIC DISC	0.022	pF	50 V Z	3579223530	2	
C31	MYLAR	0.0033	uF	100 V J	3679332120	1	
C32	MYLAR	0.039	uF	100 V J	3679393120	1	
C33	ELECTROLYTIC SG	0.47	uF	50 V M	3479347871	1	
C34	CERAMIC TUBULAR	0.022	uF	25 V	3519223520	1	
C35	ELECTROLYTIC SG	100	uF	16 V M	3479310131	1	
C36	CERAMIC DISC	330	pF	50 V J	3579331130	1	
C37C	CERAMIC DISC	82	pF	50 V J	3579820130	1	
C38C	CERAMIC DISC	100	pF	50 V J	3579101130	1	
C39	ELECTROLYTIC SG	10	uF	35 V M	3479310061	1	
C40D	NOT USED !					1	
C41	ELECTROLYTIC SG	2.2	uF	50 V M	3479322971	1	
C42	CERAMIC TUBULAR	0.047	uF	50 V J	3519473935	1	
C43	CERAMIC DISC	680	pF	50 V J	3579681130	1	
C44	ELECTROLYTIC SG	100	uF	16 V M	3479310131	1	
C45	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C46	ELECTROLYTIC SG	0.22	uF	50 V M	3479322871	1	
C47	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C48	CERAMIC DISC	0.022	pF	50 V Z	3579223530	1	
C49	ELECTROLYTIC SG	10	uF	35 V M	3479310061	1	
C50L/R	CERAMIC DISC	220	pF	50 V J	3579221130	2	
C51L/R	ELECTROLYTIC SG	10	uF	35 V M	3479310061	2	
C53	ELECTROLYTIC SG	10	uF	35 V M	3479310061	1	
C54D-C60D	NOT USED !					2	
C62L/R	CERAMIC DISC	10	pF	50 V J	3579100130	2	
	FILTERS						
CF1	CERAMIC, SFE10.7MS3GH-ATF21				3978011011	1	
CF2	NOT USED !						
CF3	CERAMIC, SFE10.7MS3GH-ATF21				3978011011	1	
CF4	SFM2-450BL				3908001080	1	
	CONNECTOR						
CN100	PLUG(52419-1090)				4428561520	1	
	DIODES						
D1	ZENER, UZ 5.1V BSB				2258599103	1	
D2	1N4148, Switching				2058322101	1	
D3D	NOT USED !						
D5	NOT USED !						
VD1/VD2	VARACTOR, SVC321C-2				2258817104	2	
	INTEGRATED CIRCUITS						
IC1	LM7001M				2138017136	1	
IC2	LA1266G				2168017128	1	
IC3	LA3401				2168417120	1	
IC4D	NOT USED !						
	COILS						
L1C	INDUCTOR, 20.8 mH				2648601430	1	
T1	AM-ANT				2608201120	1	
T2	AM-OSC				2638201150	1	
T3	AM-IFT				2848001250	1	
T4	FM-DET-A				2628000100	1	
T5	FM-DET-B				2628000110	1	
T6L/R	MPX(19/38kHz)				2658001050	2	
	TRANSISTORS						
Q1/Q2	2SC1740S				2208622107	2	
Q3	KTC1923Y				2208406103	1	

Ref. No	Description				Part No.	Q'ty	Version
Q4/Q6	KRA107M				2238006103	2	
Q7D	NOT USED !						
Q8L/R	DTC323TS				2238422100	2	
Q9	KRA107M				2238006103	1	
	RESISTORS						
R1	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R2	CARBON FILM	5.6	kohm	1/5 W J	3069562970	1	
R3	CARBON FILM	22	kohm	1/5 W J	3069223970	1	
R4	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R5	METAL FILM	470	ohm	1/5 W J	3029471970	1	
R6	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R7	CARBON FILM	10	kohm	1/5 W J	3069103970	1	
R8	METAL FILM	270	ohm	1/5 W J	3029271970	1	
R9	METAL FILM	560	ohm	1/5 W J	3029561970	1	
R10	METAL FILM	1	kohm	1/5 W J	3029102970	1	
R11	METAL FILM	180	ohm	1/5 W J	3029181970	1	
R12	METAL FILM	560	ohm	1/5 W J	3029561970	1	
R13	METAL FILM	3.3	kohm	1/5 W J	3029332970	1	
R14	METAL FILM	560	ohm	1/5 W J	3029561970	1	
R15	METAL FILM	470	ohm	1/5 W J	3029471970	1	
R16	METAL FILM	100	ohm	1/5 W J	3029101970	1	
R17-R19	METAL FILM	1	kohm	1/5 W J	3029102970	3	
R20	METAL FILM	330	ohm	1/5 W J	3029331970	1	
R21	METAL FILM	270	ohm	1/5 W J	3029271970	1	
R22	METAL FILM	330	ohm	1/5 W J	3029331970	1	
R24	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	
R25	CARBON FILM	68	kohm	1/5 W J	3069683970	1	
R26	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R27	CARBON FILM	10	kohm	1/5 W J	3069103970	1	
R28	CARBON FILM	22	kohm	1/5 W J	3069223970	1	
R29	METAL FILM	22	ohm	1/5 W J	3029220970	1	
R30	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	
R31	METAL FILM	2.7	kohm	1/5 W J	3029272970	1	
R32	CARBON FILM	6.8	kohm	1/5 W J	3069682970	1	
R33	METAL FILM	3.3	kohm	1/5 W J	3029332970	1	
R34	METAL FILM	68	ohm	1/5 W J	3029680970	1	
R35C	METAL FILM	1.8	kohm	1/5 W J	3029182970	1	
R36D-R38D	NOT USED !						
R39	METAL FILM	68	ohm	1/5 W J	3029680970	1	
R40	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R41	CARBON FILM	22	kohm	1/5 W J	3069223970	1	
R42	METAL FILM	3.3	kohm	1/5 W J	3029332970	1	
R43	CARBON FILM	22	kohm	1/5 W J	3069223970	1	
R44	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R46L/R	CARBON FILM	220	kohm	1/5 W J	3069224970	2	
R47L/R	CARBON FILM	270	kohm	1/5 W J	3069274970	2	
R48L/R	METAL FILM	2.7	kohm	1/5 W J	3029272970	2	
R49L/R	METAL FILM	3.3	kohm	1/5 W J	3029332970	2	
R50D-R53D	NOT USED !						
R56D	NOT USED !						
	SEMI FIXED VARIABLE RESISTORS						
VR1	5K(B)				3248050243	1	
VR2	50K(B)				3248050343	1	
VR3	200K(B)				3248020443	1	
	MISCELLANEOUS						
X1	CRYSTAL, 7.2MHz				3938223003	1	
X2	RESONATOR, CS8456F				3939001009	1	
X3D	NOT USED !						
TC1	TRIMMER, 10 pF				3519100935	1	
FE1	FM FRONT-END, FTH4-406H				3928101870	1	
38	ANTENNA TERMINAL				4408108210	1	Europe
PCB1	**ASSEMBLY P.C.BOARD TUNER(USA/CANADA VERSION)**						
	CAPACITORS						
C1	ELECTROLYTIC SG	47	uF	25 V M	3479347041	1	
C2	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C3/C4	CERAMIC CHIP	0.0082	uF	50 V Z	3539822820	2	
C5	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C6/C7	CERAMIC CHIP	220	pF	50 V Z	3539221210	2	
C8	CERAMIC CHIP	0.012	uF	50 V Z	3539123820	1	
C9	ELECTROLYTIC SG	47	uF	25 V M	3479347041	1	
C10	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C11	CERAMIC CHIP	0.012	uF	50 V Z	3539123820	1	
C12	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C13/14	CERAMIC CHIP	0.012	uF	50 V Z	3539123820	2	
C15	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C16	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C17	CERAMIC CHIP	330	pF	50 V Z	3539331210	1	
C18	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C19/C20	CERAMIC CHIP, CH	33	pF	50 V Z	3539330210	2	
C21	CERAMIC CHIP, CH	100	pF	50 V Z	3539101210	1	

Ref. No	Description				Part No.	Q'ty	Version
C22	ELECTROLYTIC SG	2.2	uF	50 V M	3479322971	1	
C23	ELECTROLYTIC SG	100	uF	10 V M	3479310121	1	
C24	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C25	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C26	ELECTROLYTIC SG	47	uF	25 V M	3479347041	1	
C27F	NOT USED !						
C28	ELECTROLYTIC SG	3.3	uF	50 V M	3479332971	1	
C29	CERAMIC CHIP	0.0082	uF	50 V Z	3539822820	1	
C30	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C31	ELECTROLYTIC SG	4.7	uF	50 V M	3479472971	1	
C32	ELECTROLYTIC SG	22	uF	25 V M	3479322041	1	
C33	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C34	CERAMIC TUBULAR	10000	pF	16 V Z	3519103915	1	
C35	NOT USED !						
C36	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C37	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C38	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C40	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C41L	NOT USED !						
C42	ELECTROLYTIC SG	220	uF	16 V M	3479322131	1	
C43	CERAMIC CHIP	0.01	uF	50 V Z	3539103820	1	
C44	CERAMIC CHIP, CH	8	pF	50 V Z	3539809200	1	
C45	CERAMIC CHIP	470	pF	50 V Z	3539471210	1	
C46L	NOT USED !						
C48	CERAMIC TUBULAR	15	pF	50 V Z	3519150935	1	
C50	CERAMIC CHIP	0.047	uF	50 V Z	3539473060	1	
C51F	NOT USED !						
C52	CERAMIC DISC, CH	33	pF	50 V J	3528330210	1	
	TRIMMERS						
CT2L/3L	NOT USED !						
	FILTERS						
CF1/CF2	CERAMIC,SFE10.7MA8-AT21				3978011001	2	
CF3	CERAMIC, CFM2-450BL				3908001080	1	
CF5	RESONATOR, CSB456F15				3938131600	1	
	CONNECTOR						
CNT1	PLUG (52419-1090)				4408100929	1	
	DIODES						
D1L	NOT USED !						
D2	ZENER, UZ 6.2V BSB				2258599105	1	
D3	NOT USED !						
VD1	VARACTOR, SVC321SPA-C				2258817104	1	
VD2L	NOT USED !						
VD3	VARACTOR, SVC321SPA-C				2258817104	1	
	INTEGRATED CIRCUITS						
IC1	LA1832,IF.MPX				2138417002	1	
IC2	LM7001M,PLL				2138017136	1	
	COILS						
L1-L2	INDUCTOR, 8.2 mH				2648682275	2	
L3F	NOT USED !						
T1	MW-ANT(W)				2608201120	1	
T2L	NOT USED !						
T3	AM-OSC(R)				2638201150	1	
T4L	NOT USED !						
T5	AM IFT (P-7SB)				2848001250	1	
T6	FM DET (M600TC-K5600Z)				2838001114	1	
	TRANSISTORS						
Q1/Q2	BKTC3198/KTC1815, NPN				2208606105	2	
Q3L/Q4L	NOT USED !						
Q5/Q6	2SC3199Y, NPN				2208606109	1	
Q7	KSC2786-R				2208406128	1	
Q8L-Q13L	NOT USED !						
	RESISTORS						
R1	METAL FILM	1.8	kohm	1/5 W J	3029182870	1	
R2	CARBON FILM	1	kohm	1/5 W J	3069102970	1	
R3	CARBON FILM	1.8	kohm	1/5 W J	3069182970	1	
R4	CARBON FILM	1	kohm	1/5 W J	3069102970	1	
R5	CHIP	330	kohm	1/10 W J	3099334870	1	
R6	CHIP	330	kohm	1/10 W J	3099334870	1	
(R7/R8)	CHIP	1	kohm	1/10 W J	3099102870	2	
R10	CHIP	8.2	kohm	1/10 W J	3099822870	1	
R11L	NOT USED !						
R12	CHIP	8.2	kohm	1/10 W J	3099822870	1	
R13/R14	CARBON FILM	68	ohm	1/5 W J	3069680970	2	
R15-R17	CHIP	1	kohm	1/10 W J	3099102870	3	
R18	CARBON FILM	330	ohm	1/5 W J	3069331970	1	
R19/R20	CHIP	1	kohm	1/10 W J	3099102870	2	
R21	CHIP	3.3	kohm	1/10 W J	3099332870	1	

Ref. No	Description					Part No.	Q'ty	Version
R22	CHIP	560	ohm	1/10 W	J	3099561870	1	
R24	CARBON FILM	10	kohm	1/5 W	J	3069103970	1	
R25	CARBON FILM	47	ohm	1/5 W	J	3069470970	1	
R26	CARBON FILM	5.6	kohm	1/5 W	J	3069562970	1	
R27	CARBON FILM	12	kohm	1/5 W	J	3069123870	1	
R28	CHIP	470	ohm	1/10 W	J	3099471870	1	
R29	CHIP	330	ohm	1/10 W	J	3099331870	1	
R30	CHIP	2.2	kohm	1/10 W	J	3099222870	1	
R31	CHIP	330	ohm	1/10 W	J	3099331870	1	
R32	CARBON FILM	8.2	kohm	1/5 W	J	3069822970	1	
R33	CARBON FILM	82	ohm	1/5 W	J	3069820970	1	
R34L	NOT USED !							
R35L	NOT USED !							
R36	CHIP	100	kohm	1/10 W	J	3099104870	1	
R37L/R38F	NOT USED !							
R39L/R40F	NOT USED !							
R41L/R42L	NOT USED !							
R43L/R44L	NOT USED !							
R45	CHIP	100	kohm	1/10 W	J	3099104870	1	
R46	CHIP	47	kohm	1/10 W	J	3099473870	1	
R47	CHIP	470	ohm	1/10 W	J	3099471870	1	
R48L	JUMPER						1	
R49L	NOT USED !							
R50	CARBON FILM	68	ohm	1/5 W	J	3069680970	1	
	MISCELLANEOUS							
XT1	CRYSTAL, 7.2MHz					3978101031	1	
(FE1)	FM FRONT-END					054002009499	1	
38	ANTENNA TERMINAL					4408107120	1	USA/Canada
PCB2	**ASSEMBLY P.C.BOARD MAIN**							
	CAPACITORS							
⚠ C101/C102	ELECTROLYTIC HS	4700	uF	50 V	M	3419547225	2	
C103-C105	MYLAR	0.1	uF	250 V	K	3679104257	3	
C106	CAP, DE7150-487F					3549472108	1	Europe
(C106)	NOT USED !							USA/Canada
C107	ELECTROLYTIC SG	220	uF	50 V	M	3479422172	1	Europe
(C107)	NOT USED !							USA/Canada
C108	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1	
C111	ELECTROLYTIC SG	47	uF	25 V	M	3479347041	1	
C112	ELECTROLYTIC SG	100	uF	50 V	M	3479310171	1	
C113/C114	NOT USED !							
C115	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1	
C116	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1	
C119	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1	
C121/C122	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2	
C131L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2	
C133/C134	NOT USED !							
C135	CERAMIC TUBULAR	270	pF	50 V		3519271935	1	
C136	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1	
C141	MYLAR	0.1	uF	250 V	K	3679104257	1	Europe
(C141)	NOT USED !							USA/Canada
C141L/R	MYLAR	0.047	uF	100 V	J	3679473120	2	
C142	MYLAR	0.1	uF	250 V	K	3679104257	1	Europe
(C142)	NOT USED !							USA/Canada
C142L/R	CERAMIC TUBULAR	0.0047	UF	16 V		3519472915	2	Europe
(C142L/R)	NOT USED !							USA/Canada
C143	MYLAR	0.1	uF	250 V	K	3679104257	1	Europe
(C143)	NOT USED !							USA/Canada
C143L/R	CERAMIC TUBULAR	0.0047	uF	16 V		3519472915	2	
	CONNECTORS							
CN151	LEAD AS'Y, 2P, 120mm					436102123321	1	
CN161	LEAD ASS'Y, 6P, 350mm					435006352166	1	
CN202	LEAD ASS'Y, 6P, 200mm					436106203321	1	
CN200	LEAD ASS'Y, 8P, 100mm					436108103321	1	
CN201	LEAD ASS'Y, 7P, 180mm					436107183321	1	
CP402	PLUG (35336-1210)					4428851112	1	
CP301	PLUG (FFC-52045-33)					4428509031	1	
CP401	PLUG (35336-1210)					4428851112	1	
CP501	PLUG (35336-1810)					4428851118	1	
CP101	PLUG AC (GSCS-1301, AC7A)					4428100291	1	Europe
(CP101)	PLUG AC (GSCS-1302)					4428100281	1	USA/Canada
CN102	LEAD ASS'Y, 2P, 350mm					435002352166	1	USA/Canada
(CN102)	LEAD ASS'Y, 2P, 350mm					435002352116	1	Europe
CP103	PLUG (JE202B1T2 ST2P 3-B2)					4428536102	1	
CP104	PLUG (JE202B1T3 ST3P 5-B24)					4428536103	1	
CP105	PLUG (5267-03A)					4428505710	1	
CP1	WAFER (53291-1091)					4438302960	1	USA/Canada
(CP1)	WAFER (53291-1591)					4428551520	1	Europe
	DIODES							
⚠ D101-D104	1N4003, Rectifier					2258128002	4	Europe
(D101-D104)	NOT USED !							USA/Canada

Ref. No	Description	Part No.	Q'ty	Version
D105	ZENER, UZ 12V BSC	2258599116	1	Europe
(D105)	NOT USED !			USA/Canada
D106	1N4148, Swithcing	2058322101	1	
D107	ZENER, UZ 6.2V BSB	2258599105	1	USA/Canada
(D107)	NOT USED !			Europe
D108	ZENER, UZ 12V BSC	2258599116	1	
⚠ D109-D112	1N4003, Rectifier	2258128002	4	
D113	ZENER, UZ 5.1V BSB	2258599103	1	
D114/D115	ZENER, UZ 15V BSC	2258599109	2	
D116	ZENER, UZ 6.2V BSB	2258599105	1	
D117	ZENER, UZ 9.1V BSC	2258599107	1	
D118	ZENER, UZ 6.8V BSC	2258599121	1	
⚠ D120	DIODE BRIDGE (D3BA60, 600V 4A)	2058100214	1	
D121/D122	ZENER, UZ 6.2V BSB	2258599105	2	
D124	ZENER, UZ 6.8V BSC	2258599121	1	
D125	1N4148, Switching	2058322101	1	
D126	1N4003, Rectifier	2258128002	1	Europe
(D126)	NOT USED !			USA/Canada
D131	1N4148, Switching	2058322101	1	
	FUSES			
⚠ F101	SB 3.5 A, 125 V	5508102821	1	USA/Canada
⚠ (F101)	T 2 A, 250 V	5508302435	1	Europe
F102	NOT USED !			USA/Canada
⚠ (F102)	T 2.5 A, 250 V	5508302535	1	Europe
F103	NOT USED !			USA/Canada
⚠ (F103)	T 315 mA, 250 V	5508301434	1	Europe
	TRANSISTORS			
Q101	2SC3199Y, NPN	2208610109	1	Europe
(Q101)	NOT USED !			USA/Canada
Q102	2SC3199Y, NPN	2208610109	1	
Q103	KRA107N/DTA114YS	2238006103	1	
Q104	DTC114YS	2208622106	1	
Q107	DTC114YS	2208622106	1	Europe
(Q107)	NOT USED !			USA/Canada
Q109	KTD2059Y, NPN	2028406123	1	
Q131C/S	DTC323TS	2238422100	2	
Q132L/R	DTC323TS	2238422100	2	
Q133L/R	DTC323TS	2238422100	2	
	RESISTORS			
R100	METAL FILM 3.3 ohm 1/2 W J	3029335380	1	USA/Canada
(R100)	NOT USED !			Europe
R101	METAL FILM 2.2 kohm 1/5 W J	3029222970	1	
R102	METAL FILM 1 kohm 1/5 W J	3029102970	1	
R104	CARBON FILM 100 kohm 1/5 W J	3069104970	1	
R105	NOT USED !			
R106	METAL FILM 150 ohm 1/5 W J	3029151970	1	
R107	CARBON FILM 5.6 kohm 1/5 W J	3069562970	1	
R108	CARBON FILM 22 kohm 1/5 W J	3069223970	1	
R111	CARBON FILM 100 kohm 1/5 W J	3069104970	1	
R112	CARBON FILM 22 kohm 1/5 W J	3069223970	1	
R113	METAL FILM 4.7 kohm 1/5 W J	3029472970	1	USA/Canada
R116	CARBON FILM 100 kohm 1/5 W J	3069104970	1	
R117	METAL FILM 4.7 kohm 1/5 W J	3029472970	1	
R118	CARBON FILM 1 ohm 1/4 W J	3069109270	1	
R121	METAL FILM 4.7 kohm 1/5 W J	3029472970	1	
R122	METAL FILM 680 ohm 2 W J	3029681570	1	
R123	METAL FILM 470 ohm 2 W J	3029471570	1	
R125	METAL FILM 33 ohm 1/5 W J	3029330970	1	
R128	METAL FILM 2.2 kohm 2 W J	3029222570	1	
R131L/R	NOT USED !			
R132L/R	NOT USED !			
R133L/R	METAL FILM 1.5 kohm 1/5 W J	3029152970	2	
R134L/R	METAL FILM 1 kohm 1/5 W J	3029102970	2	
R135	CARBON FILM 22 kohm 1/5 W J	3069223970	1	
R136	CARBON FILM 220 kohm 1/5 W J	3069224970	1	
R137	METAL FILM 100 ohm 1/5 W J	3029101970	1	
R141L/R	METAL FILM 22 ohm 1/5 W J	3029220970	2	
R142L/R	METAL FILM 22 ohm 1/5 W J	3029220970	2	
R151/R152	CARBON FILM 10 kohm 1/5 W J	3069103970	2	
R153	CARBON FILM 47 kohm 1/5 W J	3069473970	1	
R154	METAL FILM 47 ohm 1/5 W J	3029470970	1	
	MISCELLANEOUS			
⚠ RLY101	RELAY (HR-CR7, DC12V)	5528042001	1	Europe
RLY101	NOT USED !			USA/Canada
⚠ TRANS102	ST-BY TRANS	2828101291	1	Europe
TRANS102	NOT USED !			USA/Canada
⚠ 28	OUTLET AC, 1P	4448104110	1	USA/Canada
⚠ (28)	OUTLET AC, 1P	4448103610	1	Europe
29	TERMINAL SPEAKER, 4P	4408109710	1	
30	JACK RCA, 2P	4438105040	1	
31	JACK RCA, 2P	4438115010	1	

Ref. No	Description					Part No.	Q'ty	Version
PCB3	**ASSEMBLY P.C.BOARD SURROUND SPEAKER**							
C151C/S	CAP, CERAMIC TUBULAR	0.0047	uF	16 V		3519472915	2	
C152C/S	CAP, MYLAR	0.047	uF	100 V	J	3679473120	2	
C153C/S	CAP, CERAMIC TUBULAR	0.0047	uF	16 V		3519472915	2	Europe
(C153C/S)	NOT USED !							USA/Canada
R151C/S	RES, METAL FILM	22	ohm	1/5 W	J	3029220970	2	
R152C/S	RES, METAL FILM	22	ohm	1/5 W	J	3029220970	2	
CN203	CNT, LEAD ASS'Y, 6P, 180mm					436106183321	1	
CP151	PLUG, 2P					4428508210	1	
32	TERMINAL SPEAKER, 2P					4408109510	1	
33	TERMINAL SPEAKER, 4P					4408109610	1	
PCB4	**ASSEMBLY P.C.BOARD POWER SW**							
CP171	CNT, PLUG(JE202B1T2 ST2P 3-B2)					4428536302	1	
C164	CAP, CREAMIC DISC	0.0047	uF	400VAC		3548472340	1	USA/Canada
14	BRACKET, SWITCH					6505142910	1	
⚠ 16	SWITCH (ESB-8236V)					4628055910	1	
PCB5	**ASSEMBLY P.C.BOARD HEADPHONE & SPKR SW**							
C161L/R	NOT USED !							USA/Canada
(C161L/R)	CAP, CERAMIC TUBULAR	560	pF	50 V		3519561935	2	Europe
C163	CAP, CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1	
CP161	CNT, PLUG (JE202A2T6 ANG6P)					4428536206	1	
R161L/R	RES, METAL FILM	470	ohm	2 W	J	3029471570	2	
R162L/R	NOT USED !							USA/Canada
(R162L/R)	RES, CARBON FILM	15	kohm	1/5 W	J	3069153970	2	Europe
11	JACK PHONE (HTJ064-11D)					4438005010	1	
12	SWITCH PUSH					4628043810	1	
PCB6	**ASSEMBLY P.C.BOARD AMP**							
	CAPACITORS							
C200C/S	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2	
C200L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2	
C201C/S	CERAMIC TUBULAR	470	pF	50 V		3519471935	2	
C201L/R	CERAMIC TUBULAR	470	pF	50 V		3519471935	2	
C202C/S	CERAMIC TUBULAR	1000	pF	50 V		3519102935	2	
C202L/R	CERAMIC DISC	680	pF	50 V	J	3579681130	2	
C203C/S	CERAMIC DISC	27	pF	50 V	J	3579270130	2	
C203L/R	CERAMIC DISC	27	pF	50 V	J	3579270130	2	
C204C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2	
C204L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2	
C205C/S	CERAMIC TUBULAR	220	pF	50 V		3519221935	2	
C206C/S	CERAMIC TUBULAR	15	pF	50 V		3519150935	2	
C206L/R	CERAMIC TUBULAR	5.6	pF	50 V		3519056935	2	
C207C/S	CERAMIC DISC	220	pF	50 V	J	3579221130	2	
C207L/R	CERAMIC DISC	220	pF	50 V	J	3579221130	2	
C208C/S	MYLAR	0.047	uF	100 V	J	3679473120	2	
C208L/R	MYLAR	0.047	uF	100 V	J	3679473120	2	
C209C/S	ELECTROLYTIC SG	0.1	uF	50 V	M	3479310871	2	
C209L/R	ELECTROLYTIC SG	0.1	uF	50 V	M	3479310871	2	
C210C/S	CERAMIC DISC	220	pF	50 V	J	3579221130	2	
C210L/R	CERAMIC DISC	220	pF	50 V	J	3579221130	2	
C211/C212	ELECTROLYTIC SG	470	uF	10 V	M	3479347121	2	
C213/C214	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	2	
C214C/S	CERAMIC DISC	18	pF	50 V	J	3579180130	2	
C214L/R	CERAMIC DISC	18	pF	50 V	J	3579180130	2	
C215/C216	ELECTROLYTIC SG	1	uF	100 V	M	3479310991	2	
C216C/S	NOT USED !							
C216L/R	NOT USED !							
C217	ELECTROLYTIC SG	22	uF	50 V	M	3479322071	1	
	CONNECTORS							
CP200	PLUG (5267-08A)					4428505510	1	
CP201	PLUG (5267-07A)					4428505410	1	
CP202	PLUG (5267-06A)					4428505810	1	
CP203	PLUG (5267-06A)					4428505810	1	
CP204	PLUG (5267-02A)					4428508210	1	
CP205/206	LEAD WIRE, 2P, 20mm					436102203601	1	
	DIODES							
D200C/S	1N4148, Switching					2058322101	2	
D200L/R	1N4148, Switching					2058322101	2	
D201C/S	1N4148, Switching					2058322101	2	
D201L/R	1N4148, Switching					2058322101	2	
D202C/S	1N4148, Switching					2058322101	2	
D202L/R	1N4148, Switching					2058322101	2	
D203	ZENER, UZ 27V BSC					2258599115	1	
D204	ZENER, UZ 27V BSC					2258599115	1	
D205/D206	1N4148, Switching					2058322101	2	
D207	ZENER, UZ 7.5V BSC					2258599130	1	
D207L/R	1N4148, Switching					2058322101	2	
D208L/R	1N4148, Switching					2058322101	2	

Ref. No	Description				Part No.	Q'ty	Version
	COILS						
L200C/S	INDUCTOR, 0.5 mH				2648001010	2	
L200L/R	INDUCTOR, 0.5 mH				2648001010	2	
	TRANSISTORS						
Q200C/S	BKTC3200/KTC2240, NPN				2208606108	2	
Q200L/R	BKTC3200/KTC2240, NPN				2208606108	2	
Q201C/S	BKTC3200/KTC2240, NPN				2208606108	2	
Q201L/R	BKTC3200/KTC2240, NPN				2208606108	2	
Q202C/S	2SC1740S				2208622107	2	
Q202L/R	2SC1740S				2208622107	2	
Q203C/S	2SC1740S				2208622107	2	
Q203L/R	2SC1740S				2208622107	2	
Q204C/S	KTA1024, PNP				2208206115	2	
Q204L/R	KTA1024, PNP				2208206115	2	
Q205C/S	2SC1740S				2208622107	2	
Q205L/R	2SC1740S				2208622107	2	
Q206C/S	KTC3206, NPN				2208606118	2	
Q206L/R	KTC3206, NPN				2208606118	2	
Q207L/R	2SC1740S				2208622107	2	
Q208C/S	KSC2690A-Y, NPN				2008602102	2	
Q208L/R	KSC2690A-Y, NPN				2008602102	2	
Q209C/S	KSA1220A-Y, PNP				2008202101	2	
Q209L/R	KSA1220A-Y, PNP				2008202101	2	
⚠ Q210C/S	2SC3853, NPN				2028416108	2	
⚠ Q210L/R	2SC3853, NPN				2028416108	2	
⚠ Q211C/S	2SA1489, PNP				2028116105	2	
⚠ Q211L/R	2SA1489, PNP				2028116105	2	
Q212C/S	2SC1740S				2208622107	2	
Q212L/R	2SC1740S				2208622107	2	
Q213	BKTA1267, PNP				2208206109	1	
Q214/Q215	2SC1740S				2208622107	2	
	RESISTORS						
R200C/S	CARBON FILM	39	kohm	1/5 W J	3069393970	2	
R200L/R	CARBON FILM	39	kohm	1/5 W J	3069393970	2	
R201C/S	METAL FILM	220	ohm	1/5 W J	3029221970	2	
R201L/R	METAL FILM	220	ohm	1/5 W J	3029221970	2	
R202C/S	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
R202L/R	CARBON FILM	5.6	kohm	1/5 W J	3069562970	2	
R203C/S	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
R203L/R	CARBON FILM	5.6	kohm	1/5 W J	3069562970	2	
R204/R205	METAL FILM	2.4	kohm	1/5 W J	3029242970	2	
R206C/S	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R206L/R	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R207L/R	CARBON FILM	62	kohm	1/5 W J	3069623970	2	
R208L/R	METAL FILM	2.2	kohm	1/5 W J	3029222970	2	
R209C/S	METAL FILM	2.2	kohm	1/5 W J	3029222970	2	
R209L/R	METAL FILM	2.4	kohm	1/5 W J	3029242970	2	
R210C/S	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
R210L/R	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
R211C/S	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R211L/R	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R212C/S	METAL FILM	100	ohm	1/5 W J	3029101970	2	
R212L/R	METAL FILM	100	ohm	1/5 W J	3029101970	2	
R213C/S	METAL FILM	680	ohm	1/5 W J	3029681970	2	
R213L/R	METAL FILM	680	ohm	1/5 W J	3029681970	2	
R214C/S	METAL FILM	1.8	kohm	1/5 W J	3029182970	2	
R214L/R	METAL FILM	1.8	kohm	1/5 W J	3029182970	2	
R215C/S	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R215L/R	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R216C/S	CARBON FILM	47	kohm	1/5 W J	3069473970	2	
R216L/R	CARBON FILM	47	kohm	1/5 W J	3069473970	2	
R217C/S	METAL FILM	330	kohm	1/5 W J	3029331970	2	
R217L/R	METAL FILM	330	kohm	1/5 W J	3029331970	2	
R218C/S	METAL FILM	100	ohm	1/5 W J	3029101970	2	
R218L/R	METAL FILM	100	ohm	1/5 W J	3029101970	2	
R219C/S	METAL FILM	220	ohm	1/5 W J	3029221970	2	
R219L/R	METAL FILM	220	ohm	1/5 W J	3029221970	2	
R220C/S	METAL FILM	120	ohm	1/5 W J	3029121970	2	
R220L/R	METAL FILM	120	ohm	1/5 W J	3029121970	2	
R221C/S	METAL FILM	4.7	kohm	1/5 W J	3029472970	2	
R221L/R	METAL FILM	4.7	kohm	1/5 W J	3029472970	2	
R222C/S	CARBON FILM	15	kohm	1/5 W J	3069153970	2	
R222L/R	CARBON FILM	15	kohm	1/5 W J	3069153970	2	
R223C/S	METAL FILM	22	ohm	1/5 W J	3029220970	2	
R223L/R	METAL FILM	22	ohm	1/5 W J	3029220970	2	
R224C/S	METAL FILM	22	ohm	1/5 W J	3029220970	2	
R224L/R	METAL FILM	22	ohm	1/5 W J	3029220970	2	
R225C/S	CARBON FILM	12	kohm	1/5 W J	3069123970	2	
R225L/R	CARBON FILM	12	kohm	1/5 W J	3069123970	2	
R226C/S	CARBON FILM	68	kohm	1/5 W J	3069683970	2	
R227/R228	METAL FILM	2.2	kohm	1/5 W J	3029222970	2	
R229	CARBON FILM	10	kohm	1/5 W J	3069103970	1	
R230	CARBON FILM	47	kohm	1/5 W J	3069473970	1	

Ref. No	Description				Part No.	Q'ty	Version
R231	METAL FILM	1	kohm	1/5 W J	3029102970	1	
R232	METAL FILM	1.5	kohm	1/5 W J	3029152970	1	
R233	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R234	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R235/R236	METAL FILM	3.3	kohm	1/5 W J	3069332970	2	
R237C/S	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R237L/R	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R238/R239	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
⚠ R240C/S	CEMENT	0.27	ohm	5 W J	3059027776	2	
⚠ R240L/R	CEMENT	0.27	ohm	5 W J	3059027776	2	
R241C/S	CARBON FILM	3	kohm	1/5 W J	3069302970	2	
R241L/R	CARBON FILM	3	kohm	1/5 W J	3069302970	2	
R242	METAL FILM	3.3	kohm	1/5 W J	3069332970	1	
PCB7	**ASSEMBLY P.C.BOARD FRONT**						
	CAPACITORS						
C301	CERAMIC TUBULAR	0.1	uF	50 V	3519104935	1	
C302	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C303/C304	CERAMIC TUBULAR	0.1	uF	50 V	3519104935	2	
C305	ELECTROLYTIC SG	10	uF	50 V M	3479310071	1	
C306	CAP, BACK-UP	0.047	F	5.5 V	3438247315	1	
C307/C308	MYLAR	0.047	uF	100 V J	3679473120	2	
C315	ELECTROLYTIC SG	1	uF	50 V M	3479310971	1	
C321	ELECTROLYTIC SG	10	uF	50 V M	3479310071	1	
C351L/R	NOT USED !						USA/Canada
(C351L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C352L/R	NOT USED !						USA/Canada
(C352L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C354	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C355/C356	CERAMIC TUBULAR	0.1	uF	50 V	3519104935	2	
	CONNECTORS						
CN301	PLUG (FFC-52045-33)				4428509031	1	
CN302	LEAD ASS'Y, 5P, 300mm				436205308432	1	
	DIODES						
D301-D308	1N4148, Switching				2058322101	8	
D311-D315	1N4148, Switching				2058322101	5	
LED301	LED, SLR-34URCN49				2381215704	1	
LED302	LED, SLR-34YCN49				2384521501	1	
	INTEGRATED CIRCUIT						
IC301	UPD78043AGF-209-3B9				2139313117	1	
	TRANSISTORS						
Q301	2SC3199Y, NPN				2208610109	1	
Q302	KRA107N/DTA114YS				2238006103	1	
Q303/Q304	DTC114YS				2208622106	2	
Q305	KRA107N/DTA114YS				2238006103	1	
Q306/Q307	DTC114YS				2208622106	2	
Q308	KRA107N/DTA114YS				2238006103	1	
Q311/Q312	DTC114YS				2208622106	2	
Q313	DTC114TS				2208622108	1	USA/Canada
(Q313)	NOT USED !						Europe
Q314/Q315	DTC114TS				2208622108	2	
	RESISTORS						
R301/R302	CARBON FILM	100	kohm	1/5 W J	3069104970	2	
R304	CARBON FILM	10	kohm	1/5 W J	3069103970	1	
R305-R307	CARBON FILM	100	kohm	1/5 W J	3069104970	3	
R308	NOT USED !						USA/Canada
(R308)	CARBON FILM	100	kohm	1/5 W J	3069104970	1	Europe
R309	METAL FILM	180	ohm	1/5 W J	3029181970	1	
R310	METAL FILM	330	ohm	1 W J	3029331470	1	
R311	CARBON FILM	100	kohm	1/5 W J	3069104970	11	
R312-R315	METAL FILM	4.7	kohm	1/5 W J	3029472970	4	
R316	CARBON FILM	100	kohm	1/5 W J	3069104970	1	USA/Canada
(R316)	NOT USED !						Europe
R317	NOT USED !						USA/Canada
(R317)	CARBON FILM	100	kohm	1/5 W J	3069104970	1	Europe
R318-R327	CARBON FILM	100	kohm	1/5 W J	3069104970	10	
R331	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R333	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R334	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	
R335	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R336	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	
R337	CARBON FILM	47	kohm	1/5 W J	3069473970	1	
R338	METAL FILM	180	ohm	1/5 W J	3029181970	1	
R339/R340	CARBON FILM	68	kohm	1/5 W J	3069683970	2	
R341/R342	CARBON FILM	10	kohm	1/5 W J	3069103970	2	
R343	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	USA/Canada
(R343)	NOT USED !						Europe
R344	METAL FILM	4.7	kohm	1/5 W J	3029472970	1	USA/Canada

Ref. No	Description				Part No.	Q'ty	Version
(R344)	NOT USED !						Europe
R345	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R347	CARBON FILM	100	kohm	1/5 W J	3069104970	1	
R351L/R	METAL FILM	1	kohm	1/5 W J	3029102970	2	
R353	METAL FILM	75	ohm	1/5 W J	3029750970	1	
	MISCELLANEOUS						
SEN301	RMC MODULE (CRV1G342-185BD)				2408000180	1	
X-TAL301	RESONATOR, CST4.19MGW-TF01				3938124006	1	
FIP301	FL DISPLAY CM1477C				2328140900	1	
17	HOLDER FL				6043010210	1	
18	SWITCH TACT				4658003710	26	
19	SWITCH ROTARY, ENCODER				4608400210	1	
20	JACK RCA, 3P, VCR				4438109810	1	
PCB8	**ASSEMBLY P.C.BOARD INPUT**						
	CAPACITORS						
C401	NOT USED !						
C402L/R	NOT USED !						USA/Canada
(C402L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C403L/R	NOT USED !						USA/Canada
(C403L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C404L/R	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	2	
C405L/R	ELECTROLYTIC SG	47	uF	16 V M	3479347031	2	
C406L/R	NOT USED !						
C407L/R	MYLAR	0.0018	uF	100 V J	3679182120	2	
C408L/R	MYLAR	0.0056	uF	100 V J	3679562120	2	
C411L/R	ELECTROLYTIC SG	1	uF	50 V M	3479310971	2	
C412L/R	ELECTROLYTIC SG	47	uF	16 V M	3479347031	2	
C413L/R	MYLAR	0.0018	uF	100 V J	3679182120	2	
C414	CERAMIC TUBULAR	100	pF	50 V	3519101935	1	
C415L/R	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	2	
C416/R417	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	
C418L/R	ELECTROLYTIC SG	47	uF	16 V M	3479347031	2	
C421L/R	NOT USED !						USA/Canada
(C421L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C422L/R	NOT USED !						USA/Canada
(C422L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C423L/R	NOT USED !						USA/Canada
(C423L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C424L/R	NOT USED !						USA/Canada
(C424L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C425L/R	NOT USED !						USA/Canada
(C425L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C426L/R	NOT USED !						USA/Canada
(C426L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C427L/R	NOT USED !						USA/Canada
(C427L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C428L/R	NOT USED !						USA/Canada
(C428L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C429L/R	NOT USED !						USA/Canada
(C429L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C430	CERAMIC TUBULAR	0.1	uF	50 V	3519104935	1	
C431	NOT USED !						1
C431L/R	NOT USED !						USA/Canada
(C431L/R)	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	Europe
C432	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C433	ELECTROLYTIC SG	100	uF	16 V M	3479310131	1	
C434/C435	ELECTROLYTIC SG	470	uF	10 V M	3479347121	2	
C436	CERAMIC TUBULAR	0.1	uF	50 V	3519104935	1	
C441L/R	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	2	
C442L/R	ELECTROLYTIC SG	47	uF	16 V M	3479347031	2	
C443L/R	ELECTROLYTIC SG	1	uF	50 V M	3479310971	2	
C445L/R	MYLAR	0.0022	uF	100 V J	3679222120	2	
C446L/R	PLOY	0.1	uF	63 V J	3633104187	2	
C447L/R	PLOY	0.1	uF	63 V J	3633104187	2	
C448	ELECTROLYTIC SG	47	uF	16 V M	3479347031	1	
C451	ELECTROLYTIC SG	22	uF	16 V M	3479322031	1	
C461L/R	ELECTROLYTIC SG	1	uF	50 V M	3479310971	2	
C462L/R	CERAMIC TUBULAR	820	pF	50 V	3519821935	2	
C463L/R	CERAMIC TUBULAR	100	pF	50 V	3519101935	2	
C464L/R	ELECTROLYTIC SG	4.7	uF	50 V M	3479347971	2	
C465L/R	ELECTROLYTIC SG	47	uF	16 V M	3479347031	2	
C471L/R	CERAMIC TUBULAR	150	pF	50 V	3519151935	2	
	CONNECTORS						
CP302	PLUG (GIL-S-5P-S2T2)				4428516410	1	
CN401	PLUG (35237-1210)				4428861112	1	
CN402	PLUG (35237-1210)				4428861112	1	
	DIODES						
D431	1N4148, Switching				2058322101	1	
D451	ZENER, UZ 9.1V BSC				2258599107	1	

Ref. No	Description					Part No.	Q'ty	Version
	INTEGRATED CIRCUITS							
IC401	KIA4559P/KIA75559P					2168206104	1	
IC421	TC9273N-007					2168307100	1	
IC431	LA7952					2168317136	1	
IC441	KIA4559P/KIA75559P					2168206104	1	
IC451	TDA7315D					2139035100	1	
IC461	KIA4559P/KIA75559P					2168206104	1	
	COILS							
L401L/R	NOT USED !							USA/Canada
(L401L/R)	INDUCTOR, 47uH					2648647082	2	Europe
	TRANSISTORS							
Q431	DTC114YS					2208622106	1	
Q432/Q433	2SC3199Y, NPN					2208610109	2	
	RESISTORS							
R401L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R402L/R	CARBON FILM	91	kohm	1/5 W	J	3069913970	2	
R403L/R	CARBON FILM	91	kohm	1/5 W	J	3069913970	2	
R404L/R	METAL FILM	820	ohm	1/5 W	J	3029821970	2	
R405L/R	CARBON FILM	43	kohm	1/5 W	J	3069433970	2	
R406L/R	CARBON FILM	560	kohm	1/5 W	J	3069564970	2	
R407L/R	METAL FILM	560	ohm	1/5 W	J	3029561970	2	
R408L/R	CARBON FILM	100	kohm	1/5 W	J	3069104970	2	
R409L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R412-R414	METAL FILM	1	kohm	1/5 W	J	3029102970	3	
R415	METAL FILM	15	ohm	1/5 W	J	3029150970	1	
R421L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R422L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R423L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R424L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R425L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R426L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R431L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R432	CARBON FILM	47	kohm	1/5 W	J	3069473970	1	
R433/R434	METAL FILM	75	ohm	1/5 W	J	3029750970	2	
R435	CARBON FILM	47	kohm	1/5 W	J	3069473970	1	
R436	METAL FILM	75	ohm	1/5 W	J	3029750970	1	
R437	METAL FILM	390	ohm	1/5 W	J	3029391970	1	
R438	METAL FILM	3.3	kohm	1/5 W	J	3029332970	1	
R439	METAL FILM	390	ohm	1/5 W	J	3029391970	1	
R441L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2	
R442L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R443L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R444L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2	
R445L/R	CARBON FILM	100	kohm	1/5 W	J	3069104970	2	
R446/R447	CARBON FILM	6.8	kohm	1/5 W	J	3069682970	2	
R448	METAL FILM	390	ohm	1/5 W	J	3029391970	1	
R451	CARBON FILM	47	kohm	1/5 W	J	3069473970	1	
R461L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2	
R462L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R463L/R	METAL FILM	3.3	kohm	1/5 W	J	3029332970	2	
R464L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R465L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R466L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R467L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R471	NOT USED !							
R471L/R	CARBON FILM	15	kohm	1/5 W	J	3069153970	2	
	MISCELLANEOUS							
36	JACK RCA, 4P					4438108130	2	
37	JACK RCA, 9P					4438114520	1	
PCB9	**ASSEMBLY P.C.BOARD SURROUND**							
	CAPACITORS							
C501	PLOY	680	pF	50 V	J	3615681110	1	
C502	PLOY	0.1	uF	63 V	J	3633104187	1	
C503	PLOY	680	pF	50 V	J	3615681110	1	
C504-C506	PLOY	0.1	uF	63 V	J	3633104187	3	
C507L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2	
C508	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1	
C510	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1	
C511	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1	
C512	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1	
C513	MYLAR	0.0047	uF	100 V	J	3679472120	1	
C514	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1	
C515	ELECTROLYTIC SG	220	uF	10 V	M	3479322121	1	
C516L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2	
C517	PLOY	0.1	uF	63 V	J	3633104187	1	
C518	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1	
C519	CERAMIC TUBULAR	470	pF	50 V		3519471935	1	
C521	MYLAR	0.001	uF	100 V	J	3679102120	1	
C522	MYLAR	0.0056	uF	100 V	J	3679562120	1	

Ref. No	Description					Part No.	Q'ty	Version
C523	MYLAR	0.047	uF	100 V	J	3679473120	1	
C524	MYLAR	0.68	uF	63 V	K	3679684297	1	
C525/C526	MYLAR	0.22	uF	63V	K	3679224297	2	
C527	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1	
C528	MYLAR	0.22	uF	63V	K	3679224297	1	
C529	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1	
C531	MYLAR	0.22	uF	63V	K	3679224297	1	
C532	PLOY	0.1	uF	63 V	J	3633104187	1	
C533/C534	MYLAR	0.047	uF	100 V	J	3679473120	2	
C535/C536	PLOY	0.1	uF	63 V	J	3633104187	2	
C537/C538	MYLAR	0.022	uF	100 V	J	3679223120	2	
C541	PLOY	0.1	uF	63 V	J	3633104187	1	
C544	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1	
C545	CERAMIC TUBULAR	560	pF	50 V		3519561935	1	
C551	ELECTROLYTIC SG	220	uF	10 V	M	3479322121	1	
C552/C553	CERAMIC TUBULAR	220	pF	50 V		3519221935	2	
C554	MYLAR	0.0056	uF	100 V	J	3679562120	1	
C555/C556	PLOY	0.1	uF	63 V	J	3633104187	2	
C557/C558	MYLAR	0.047	uF	100 V	J	3679473120	2	
C561	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1	
C562	CERAMIC TUBULAR	560	pF	50 V		3519561935	1	
C563	MYLAR	0.0022	uF	100 V	J	3679222120	1	
C565	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	1	
C566	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1	
C571C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2	
C572C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2	
C573C/S	CERAMIC TUBULAR	560	pF	50 V		3519561935	2	
C574C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2	
C576C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2	
C577C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2	
C581-C584	CERAMIC TUBULAR	100	pF	50 V		3519101935	4	
	CONNECTOR							
CN501	PLUG (35237-1810)					4428861118	1	
	DIODES							
D501	ZENER, UZ 5.1V BSB					2258599103	1	
D502	1N4148, Switching					2058322101	1	
	INTEGRATED CIRCUITS							
IC501	NJW1102AFG1					2169020101	1	
IC551	NJU9702G					2169020100	1	
IC571	KIA4559P/KIA75559P					2168206104	1	
IC572	TC9210P					2168007209	1	
	RESISTORS							
R501	CARBON FILM	47	kohm	1/5 W	J	3069473970	1	
R502/R503	CARBON FILM	15	kohm	1/5 W	J	3069153970	2	
R504	CARBON FILM	7.5	kohm	1/5 W	J	3069752970	1	
R505	CARBON FILM	47	kohm	1/5 W	J	3069473970	1	
R506	CARBON FILM	7.5	kohm	1/5 W	J	3069752970	1	
R507L/R	CARBON FILM	22	kohm	1/5 W	J	3069223970	2	
R508	CARBON FILM	4.7	Mohm	1/5 W	J	3069475970	1	
R511	CARBON FILM	100	kohm	1/5 W	J	3069104970	1	
R512	METAL FILM	33	ohm	1/5 W	J	3029330970	1	
R513	METAL FILM	270	ohm	1/5 W	J	3029271970	1	
R514	METAL FILM	1	kohm	1/5 W	J	3029102970	1	
R515/R516	CARBON FILM	10	kohm	1/5 W	J	3069103970	2	
R517	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1	
R518	CARBON FILM	100	kohm	1/5 W	J	3069104970	1	
R521	CARBON FILM	15	kohm	1/5 W	J	3069153970	1	
R522	CARBON FILM	330	kohm	1/5 W	J	3069334970	1	
R523	CARBON FILM	22	kohm	1/5 W	J	3069223970	1	
R541	CARBON FILM	15	kohm	1/5 W	J	3069153970	1	
R552	CARBON FILM	10	kohm	1/5 W	J	3069103970	1	
R553/R554	CARBON FILM	15	kohm	1/5 W	J	3069153970	2	
R555	METAL FILM	22	ohm	1/5 W	J	3029220970	1	
R556	CARBON FILM	15	kohm	1/5 W	J	3069153970	1	
R557	CARBON FILM	10	kohm	1/5 W	J	3069103970	1	
R558	CARBON FILM	43	kohm	1/5 W	J	3069433970	1	
R559	METAL FILM	22	ohm	1/5 W	J	3029220970	1	
R560	CARBON FILM	1	Mohm	1/5 W	J	3069105970	1	
R571C/S	METAL FILM	470	ohm	1/5 W	J	3029471970	2	
R574C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R575C/S	CARBON FILM	5.6	kohm	1/5 W	J	3069562970	2	
R576C/S	METAL FILM	1	kohm	1/5 W	J	3029102970	2	
R577C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R578C/S	METAL FILM	2.4	kohm	1/5 W	J	3029242970	2	
R581C/S	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R582C/S	METAL FILM	100	ohm	1/5 W	J	3029101970	2	
R583	METAL FILM	1	kohm	1/5 W	J	3029102970	1	
R583C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2	
R584-R586	METAL FILM	1	kohm	1/5 W	J	3029102970	3	
	MISCELLANEOUS							
X-TAL551	RESONATOR, CSA2.0MG-TF01					3938124001	1	
35	BRACKET INSERT					6165144210	1	

ELECTRICAL PARTS LIST (II)

Model No. : R-125RDS

Ref. No	Description					Part No.	Q'ty
PCB1	ASSEMBLY P.C.BOARD TUNER						
	CAPACITORS						
C1	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C2	CERAMIC DISC	0.047	pF	50 V	Z	3579473530	1
C3	ELECTROLYTIC SG	3.3	uF	50 V	M	3479333971	1
C4	CERAMIC TUBULAR	10000	pF	16 V	Z	3519103915	1
C5	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C6	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C7	CERAMIC TUBULAR	10000	pF	16 V	Z	3519103915	1
C8/C9	CERAMIC DISC, CH	18	pF	50 V	J	3528180210	2
C10	CERAMIC DISC	100	pF	50 V	J	3579101130	1
C11	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C12	CERAMIC DISC	0.022	pF	50 V	Z	3579223530	1
C13	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C14	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1
C15	POLY	470	pF	50 V	J	3615471110	1
C16	CERAMIC CHIP, CH	15	pF	50 V	Z	3539150120	1
C17/C18	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	2
C20	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	1
C21/C22	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	2
C23	CERAMIC TUBULAR	10000	pF	16 V	Z	3519103915	1
C24/C25	CERAMIC DISC	0.022	pF	50 V	Z	3579223530	2
C26	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1
C27	ELECTROLYTIC SG	3.3	uF	50 V	M	3479333971	1
C28	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1
C29/C30	CERAMIC DISC	0.022	pF	50 V	Z	3579223530	2
C31	MYLAR	0.0033	uF	100 V	J	3679332120	1
C32	MYLAR	0.039	uF	100 V	J	3679393120	1
C33	ELECTROLYTIC SG	0.47	uF	50 V	M	3479347871	1
C34	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C35	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1
C36	CERAMIC DISC	330	pF	50 V	J	3579331130	1
C37C	CERAMIC DISC	82	pF	50 V	J	3579820130	1
C38C	CERAMIC DISC	100	pF	50 V	J	3579101130	1
C39	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	1
C40D	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C41	ELECTROLYTIC SG	2.2	uF	50 V	M	3479322971	1
C42	CERAMIC TUBULAR	0.047	uF	50 V		3519473935	1
C43	CERAMIC DISC	680	pF	50 V	J	3579681130	1
C44	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1
C45	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	1
C46	ELECTROLYTIC SG	0.22	uF	50 V	M	3479322871	1
C47	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	1
C48	CERAMIC DISC	0.022	pF	50 V	Z	3579223530	1
C49	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	1
C50L/R	CERAMIC DISC	220	pF	50 V	J	3579221130	2
C51L/R	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	2
C53	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	1
C54D	CERAMIC TUBULAR	270	pF	50 V		3519271935	1
C55D	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C56D	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	1
C57D	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
C58D/C59	CERAMIC DISC	27	pF	50 V	J	3579270130	2
C60D	CERAMIC DISC	0.1	uF	50 V	Z	3579104530	1
C62L/R	CERAMIC DISC	10	pF	50 V	J	3579100130	2
	FILTERS						
CF1	CERAMIC, SFE10.7MS3GH-ATF21					3978011011	1
CF2	NOT USED !						
CF3	CERAMIC, SFE10.7MS3GH-ATF21					3978011011	1
CF4	SFM2-450BL					3908001080	1
	CONNECTOR						
CN100	PLUG(52419-1090)					4428561520	1
	DIODES						
D1	ZENER, UZ 5.1V BSB					2258599103	1
D2	1N4148, Switching					2058322101	1
D3D	ZENER, UZ 5.1V BSB					2258599103	1
D5	NOT USED 1						
VD1/VD2	VARACTOR, SVC321C-2					2258817104	2
	INTEGRATED CIRCUITS						
IC1	LM7001M					2138017136	1
IC2	LA1266G					2168017128	1
IC3	LA3401					2168417120	1
IC4D	TDA7330BD					2138300213	1
	COILS						
L1C	INDUCTOR, 20.8 mH					2648601430	1
T1	AM-ANT					2608201120	1
T2	AM-OSC					2638201150	1
T3	AM-IFT					2848001250	1
T4	FM-DET-A					2628000100	1
T5	FM-DET-B					2628000110	1

Ref. No	Description					Part No.	Q'ty
T6L/R	MPX(19/38kHz)					2658001050	2
	TRANSISTORS						
Q1/Q2	2SC1740S					2208622107	2
Q3	KTC1923Y					2208406103	1
Q4/Q6	KRA107M					2238006103	2
Q7D	2SC1740S					2208622107	1
Q8L/R	DTC323TS					2238422100	2
Q9	KRA107M					2238006103	1
	RESISTORS						
R1	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R2	CARBON FILM	5.6	kohm	1/5 W	J	3069562970	1
R3	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R4	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R5	METAL FILM	470	ohm	1/5 W	J	3029471970	1
R6	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R7	CARBON FILM	10	kohm	1/5 W	J	3069103970	1
R8	METAL FILM	270	ohm	1/5 W	J	3029271970	1
R9	METAL FILM	560	ohm	1/5 W	J	3029561970	1
R10	METAL FILM	1	kohm	1/5 W	J	3029102970	1
R11	METAL FILM	180	ohm	1/5 W	J	3029181970	1
R12	METAL FILM	560	ohm	1/5 W	J	3029561970	1
R13	METAL FILM	3.3	kohm	1/5 W	J	3029332970	1
R14	METAL FILM	560	ohm	1/5 W	J	3029561970	1
R15	METAL FILM	470	ohm	1/5 W	J	3029471970	1
R16	METAL FILM	100	ohm	1/5 W	J	3029101970	1
R17-R19	METAL FILM	1	kohm	1/5 W	J	3029102970	3
R20	METAL FILM	330	ohm	1/5 W	J	3029331970	1
R21	METAL FILM	270	ohm	1/5 W	J	3029271970	1
R22	METAL FILM	330	ohm	1/5 W	J	3029331970	1
R24	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R25	CARBON FILM	68	kohm	1/5 W	J	3069683970	1
R26	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R27	CARBON FILM	10	kohm	1/5 W	J	3069103970	1
R28	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R29	METAL FILM	22	ohm	1/5 W	J	3029220970	1
R30	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R31	METAL FILM	2.7	kohm	1/5 W	J	3029272970	1
R32	CARBON FILM	6.8	kohm	1/5 W	J	3069682970	1
R33	METAL FILM	3.3	kohm	1/5 W	J	3029332970	1
R34	METAL FILM	68	ohm	1/5 W	J	3029680970	1
R35C	METAL FILM	1.8	kohm	1/5 W	J	3029182970	1
R36D	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R37D	METAL FILM	22	ohm	1/5 W	J	3029220970	1
R38D	METAL FILM	1	kohm	1/5 W	J	3029102970	1
R39	METAL FILM	68	ohm	1/5 W	J	3029680970	1
R40	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R41	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R42	METAL FILM	3.3	kohm	1/5 W	J	3029332970	1
R43	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R44	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R46L/R	CARBON FILM	220	kohm	1/5 W	J	3069224970	2
R47L/R	CARBON FILM	270	kohm	1/5 W	J	3069274970	2
R48L/R	METAL FILM	2.7	kohm	1/5 W	J	3029272970	2
R49L/R	METAL FILM	3.3	kohm	1/5 W	J	3029332970	2
R50D	METAL FILM	470	ohm	1/5 W	J	3029471970	1
R52D/R53	CARBON FILM	10	kohm	1/5 W	J	3069103970	2
R56D	CARBON FILM	2.2	Mohm	1/5 W	J	3069259970	1
	SEMI FIXED VARIABLE RESISTORS						
VR1	5K(B)					3248502-43	1
VR2	50K(B)					3248503-43	1
VR3	200K(B)					3248204-43	1
	MISCELLANEOUS						
X1	CRYSTAL, 7.2MHz					3938230003	1
X2	Resonator, CS8456F					3939010009	1
X3D	Resonator, X4M332					3938019220	1
TC1	Trimmer, 10 pF					3519109235	1
FE1	FM FRONT-END, FTH4-406H					3928018770	1
39	ANTENNA TERMINAL					4408082220	1
PCB2	ASSEMBLY P.C.BOARD MAIN						
	CAPACITORS						
⚠ C101/C102	ELECTROLYTIC HS	4700	uF	50 V	M	3419572225	2
C103-C105	MYLAR	0.1	uF	250 V	K	3679142257	3
C106	CAP, DE7150-487F					3549421008	1
C107	ELECTROLYTIC SG	220	uF	50 V	M	3479421772	1
C108	ELECTROLYTIC SG	220	uF	16 V	M	3479321331	1
C111	ELECTROLYTIC SG	47	uF	25 V	M	3479370441	1
C112	ELECTROLYTIC SG	100	uF	50 V	M	3479301771	1
C113/C114	NOT USED !						
C115	ELECTROLYTIC SG	22	uF	16 V	M	3479320331	2

Model No. : R-125RDS

Ref. No	Description					Part No.	Q'ty
C116	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	2
C119	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1
C121/C122	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C131L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C133/C134	NOT USED !						
C135	CERAMIC TUBULAR	270	pF	50 V		3519271935	1
C136	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
C141	MYLAR	0.1	uF	250 V	K	3679104257	1
C141L/R	MYLAR	0.047	uF	100 V	J	3679473120	2
C142	MYLAR	0.1	uF	250 V	K	3679104257	1
C142L/R	CERAMIC TUBULAR	0.0047	uF	16 V		3519472915	2
C143	MYLAR	0.1	uF	250 V	K	3679104257	1
C143L/R	CERAMIC TUBULAR	0.0047	uF	16 V		3519472915	2
	CONNECTORS						
CN151	LEAD ASS'Y, 2P, 120mm					436102123321	1
CN161	LEAD ASS'Y, 6P, 350mm					435006352166	1
CN202	LEAD ASS'Y, 6P, 200mm					436106203321	1
CN200	LEAD ASS'Y, 8P, 100mm					436108103321	1
CN201	LEAD ASS'Y, 7P, 180mm					436107183321	1
CP402	PLUG (35336-1210)					4428851112	1
CP301	PLUG (FFC-52045-33)					4428509031	1
CP401	PLUG (35336-1210)					4428851112	1
CP501	PLUG (35336-1810)					4428851118	1
CP101	PLUG AC (GSCS-1301, AC7A)					4428100291	1
CN102	LEAD ASS'Y, 2P, 350mm					435002352116	1
CP103	PLUG (JE202B1T2 ST2P 3-B2)					4428536102	1
CP104	PLUG (JE202B1T3 ST3P 5-B24)					4428536103	1
CP105	PLUG (5267-03A)					4428505710	1
CP1	WAFER (53291-1591)					4428551520	1
	DIODES						
⚠ D101-D104	1N4003, Rectifier					2258128002	4
D105	ZENER, UZ 12V BSC					2258599116	1
D106	NOT USED !						
D107	ZENER, UZ 6.2V BSB					2258599105	1
D108	ZENER, UZ 12V BSC					2258599116	1
⚠ D109-D112	1N4003, Rectifier					2258128002	4
D113	ZENER, UZ 5.1V BSB					2258599103	1
D114/D115	ZENER, UZ 15V BSC					2258599109	2
D116	ZENER, UZ 6.2V BSB					2258599105	1
D117	ZENER, UZ 9.1V BSC					2258599107	1
D118	ZENER, UZ 6.8V BSC					2258599121	1
⚠ D120	DIODE BRIDGE (D3BA60, 600V 4A)					2058100214	1
D121/D122	ZENER, UZ 6.2V BSB					2258599105	2
D124	ZENER, UZ 6.8V BSC					2258599121	1
D125	1N4148, Switching					2058322101	1
D126	1N4003, Rectifier					2258128002	1
D131	1N4148, Switching					2058322101	1
	FUSES						
⚠ F101	T 2 A, 250 V					5508302435	1
⚠ F102	T 2.5 A, 250 V					5508302435	1
⚠ F103	T 315 mA, 250 V					5508301434	1
	TRANSISTORS						
Q101	2SC3199Y, NPN					2208610109	1
Q102	2SC3199Y, NPN					2208610109	1
Q103	KRA107N/DTA114YS					2238006103	1
Q104	DTC114YS					2208622106	1
Q107	DTC114YS					2208622106	1
Q109	KTD2059Y, NPN					2028406123	1
Q131C/S	DTC323TS					2238422100	2
Q132L/R	DTC323TS					2238422100	2
Q133L/R	DTC323TS					2238422100	2
	RESISTORS						
R100	NOT USED !						
R101	METAL FILM	2.2	kohm	1/5 W	J	3029222970	1
R102	METAL FILM	1	kohm	1/5 W	J	3029102970	1
R104	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R105	NOT USED !						
R106	METAL FILM	150	kohm	1/5 W	J	3029151970	1
R107	CARBON FILM	5.6	kohm	1/5 W	J	3069562970	1
R108	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R111	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R112	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R113	NOT USED !						
R116	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R117	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R118	CARBON FILM	1	ohm	1/4 W	J	3069109270	1
R121	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R122	METAL FILM	680	ohm	2 W	J	3029681570	1
R123	METAL FILM	470	ohm	2 W	J	3029471570	1
R125	METAL FILM	33	ohm	1/5 W	J	3029330970	1

Ref. No	Description					Part No.	Q'ty
R128	METAL FILM	2.2	kohm	2 W	J	3029222570	1
R131L/R	NOT USED !						
R132L/R	NOT USED !						
R133L/R	METAL FILM	1.5	kohm	1/5 W	J	3029152970	2
R134L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R135	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R136	CARBON FILM	220	kohm	1/5 W	J	3069224970	1
R137	METAL FILM	100	ohm	1/5 W	J	3029101970	1
R141L/R	METAL FILM	22	ohm	1/5 W	J	3029220970	2
R142L/R	METAL FILM	22	ohm	1/5 W	J	3029220970	2
R151/R152	CARBON FILM	10	kohm	1/5 W	J	3069103970	2
R153	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R154	METAL FILM	47	ohm	1/5 W	J	3029470970	1
	MISCELLANEOUS						
⚠ RLY101	RELAY (HR-CR7 DC12V)					5528042001	1
⚠ TRANS102	ST-BY TRANS					2828090901	1
⚠ 29	OUTLET AC, 1P					4448103610	1
30	TERMINAL SPEAKER, 4P					4408109710	1
31	JACK RCA, 2P					4438105040	1
32	JACK RCA, 2P					4438115010	1
PCB3	**ASSEMBLY P.C.BOARD SURROUND SPEAKER**						
C151C/S	CAP, CERAMIC TUB	0.0047	uF	16 V		3519472915	2
C152C/S	CAP, MYLAR	0.047	uF	100 V	J	3679473120	2
C153C/S	CAP, CERAMIC TUB	0.0047	uF	16 V		3519472915	2
R151C/S	RES, METAL FILM	22	ohm	1/5 W	J	3029220970	2
R152C/S	RES, METAL FILM	22	ohm	1/5 W	J	3029220970	2
CN203	CNT, LEAD ASS'Y, 6P, 180mm					436106183321	1
CP151	PLUG, 2P					4428508210	1
33	TERMINAL SPEAKER, 2P					4408109510	1
34	TERMINAL SPEAKER, 4P					4408109610	1
PCB4	**ASSEMBLY P.C.BOARD POWER SW**						
CP171	CNT, PLUG(JE202B1T2 ST2P 3-B2)					4428536202	1
C164	NOT USED !						
15	BRACKET SWITCH					6505142910	1
17	SWITCH (ESB-8236V)					4628055910	1
PCB5	**ASSEMBLY P.C.BOARD HEADPHONE & SPKR SW**						
C161L/R	CERAMIC TUBULAR	560	pF	50 V		3519561935	2
C163	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
CP161	PLUG (JE202A2T6 ANG6P)					4428536206	1
R161L/R	METAL FILM	470	ohm	2 W	J	3029471570	2
R162L/R	CARBON FILM	15	kohm	1/5 W	J	3069153970	2
12	JACK PHONE					4438005010	1
13	SWITCH PUSH					4628043810	1
PCB6	**ASSEMBLY P.C.BOARD AMP**						
	CAPACITORS						
C200C/S	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C200L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2
C201C/S	CERAMIC TUBULAR	470	pF	50 V		3519471935	2
C201L/R	CERAMIC TUBULAR	470	pF	50 V		3519471935	2
C202C/S	CERAMIC TUBULAR	1000	pF	50 V		3519102935	2
C202L/R	CERAMIC DISC	680	pF	50 V	J	3579681130	2
C203C/S	CERAMIC DISC	27	pF	50 V	J	3579270130	2
C203L/R	CERAMIC DISC	27	pF	50 V	J	3579270130	2
C204C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C204L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C205C/S	CERAMIC TUBULAR	220	pF	50 V		3519221935	2
C206C/S	CERAMIC TUBULAR	15	pF	50 V		3519150935	2
C206L/R	CERAMIC TUBULAR	5.6	pF	50 V		3519056935	2
C207C/S	CERAMIC DISC	220	pF	50 V	J	3579221130	2
C207L/R	CERAMIC DISC	220	pF	50 V	J	3579221130	2
C208C/S	MYLAR	0.047	uF	100 V	J	3679473120	2
C208L/R	MYLAR	0.047	uF	100 V	J	3679473120	2
C209C/S	ELECTROLYTIC SG	0.1	uF	50 V	M	3479310871	2
C209L/R	ELECTROLYTIC SG	0.1	uF	50 V	M	3479310871	2
C210C/S	CERAMIC DISC	220	pF	50 V	J	3579221130	2
C210L/R	CERAMIC DISC	220	pF	50 V	J	3579221130	2
C211/C212	ELECTROLYTIC SG	470	uF	10 V	M	3479347121	2
C213/C214	ELECTROLYTIC SG	10	uF	35 V	M	3479310061	2
C214C/S	CERAMIC DISC	18	pF	50 V	J	3579180130	2
C214L/R	CERAMIC DISC	18	pF	50 V	J	3579180130	2
C215/C216	ELECTROLYTIC SG	1	uF	100 V	M	3479310991	2
C216C/S	NOT USED !						
C216L/R	NOT USED !						
C217	ELECTROLYTIC SG	22	uF	50 V	M	3479322071	1

Ref. No	Description	Part No.	Q'ty
	CONNECTORS		
CP200	PLUG (5267-08A)	4428505510	1
CP201	PLUG (5267-07A)	4428505410	1
CP202	PLUG (5267-06A)	4428505810	1
CP203	PLUG (5267-06A)	4428505810	1
CP204	PLUG (5267-02A)	4428508210	1
CP205/206	LEAD WIRE, 2P, 20mm	436102203601	1
	DIODES		
D200C/S	1N4148, Switching	2058322101	2
D200L/R	1N4148, Switching	2058322101	2
D201C/S	1N4148, Switching	2058322101	2
D201L/R	1N4148, Switching	2058322101	2
D202C/S	1N4148, Switching	2058322101	2
D202L/R	1N4148, Switching	2058322101	2
D203	ZENER, UZ 27V BSC	2258599115	1
D204	ZENER, UZ 27V BSC	2258599115	1
D205/D206	1N4148, Switching	2058322101	2
D207	ZENER, UZ 7.5V BSC	2258599130	1
D207L/R	1N4148, Switching	2058322101	2
D208L/R	1N4148, Switching	2058322101	2
	COILS		
L200C/S	INDUCTOR, 0.5 mH	2648001010	2
L200L/R	INDUCTOR, 0.5 mH	2648001010	2
	TRANSISTORS		
Q200C/S	BKTC3200/KTC2240, NPN	2208606108	2
Q200L/R	BKTC3200/KTC2240, NPN	2208606108	2
Q201C/S	BKTC3200/KTC2240, NPN	2208606108	2
Q201L/R	BKTC3200/KTC2240, NPN	2208606108	2
Q202C/S	2SC1740S	2208622107	2
Q202L/R	2SC1740S	2208622107	2
Q203C/S	2SC1740S	2208622107	2
Q203L/R	2SC1740S	2208622107	2
Q204C/S	KTA1024, PNP	2208206115	2
Q204L/R	KTA1024, PNP	2208206115	2
Q205C/S	2SC1740S	2208622107	2
Q205L/R	2SC1740S	2208622107	2
Q206C/S	KTC3206, NPN	2208606118	2
Q206L/R	KTC3206, NPN	2208606118	2
Q207L/R	2SC1740S	2208622107	2
Q208C/S	KSC2690A-Y, NPN	2008602102	2
Q208L/R	KSC2690A-Y, NPN	2008602102	2
Q209C/S	KSA1220A-Y, PNP	2008202101	2
Q209L/R	KSA1220A-Y, PNP	2008202101	2
Q210C/S	2SC3853, NPN	2028416108	2
Q210L/R	2SC3853, NPN	2028416108	2
Q211C/S	2SA1489, PNP	2028116105	2
Q211L/R	2SA1489, PNP	2028116105	2
Q212C/S	2SC1740S	2208622107	2
Q212L/R	2SC1740S	2208622107	2
Q213	BKTA1267, PNP	2208206109	1
Q214/Q21	2SC1740S	2208622107	2
	RESISTORS		
R200C/S	CARBON FILM 39 kohm 1/5 W J	3069393970	2
R200L/R	CARBON FILM 39 kohm 1/5 W J	3069393970	2
R201C/S	METAL FILM 220 ohm 1/5 W J	3029221970	2
R201L/R	METAL FILM 220 ohm 1/5 W J	3029221970	2
R202C/S	CARBON FILM 10 kohm 1/5 W J	3069103970	2
R202L/R	CARBON FILM 5.6 kohm 1/5 W J	3069562970	2
R203C/S	CARBON FILM 10 kohm 1/5 W J	3069103970	2
R203L/R	CARBON FILM 5.6 kohm 1/5 W J	3069562970	2
R204/R205	METAL FILM 2.4 kohm 1/5 W J	3029242970	2
R206C/S	METAL FILM 1 kohm 1/5 W J	3029102970	2
R206L/R	METAL FILM 1 kohm 1/5 W J	3029102970	2
R207L/R	CARBON FILM 62 kohm 1/5 W J	3069623970	2
R208L/R	METAL FILM 2.2 kohm 1/5 W J	3029222970	2
R209C/S	METAL FILM 2.2 kohm 1/5 W J	3029222970	2
R209L/R	METAL FILM 2.4 kohm 1/5 W J	3029242970	2
R210C/S	CARBON FILM 10 kohm 1/5 W J	3069103970	2
R210L/R	CARBON FILM 10 kohm 1/5 W J	3069103970	2
R211C/S	METAL FILM 1 kohm 1/5 W J	3029102970	2
R211L/R	METAL FILM 1 kohm 1/5 W J	3029102970	2
R212C/S	METAL FILM 100 ohm 1/5 W J	3029101970	2
R212L/R	METAL FILM 100 ohm 1/5 W J	3029101970	2
R213C/S	METAL FILM 680 ohm 1/5 W J	3029681970	2
R213L/R	METAL FILM 680 ohm 1/5 W J	3029681970	2
R214C/S	METAL FILM 1.8 kohm 1/5 W J	3029182970	2
R214L/R	METAL FILM 1.8 kohm 1/5 W J	3029182970	2
R215C/S	METAL FILM 1 kohm 1/5 W J	3029102970	2
R215L/R	METAL FILM 1 kohm 1/5 W J	3029102970	2
R216C/S	CARBON FILM 47 kohm 1/5 W J	3069473970	2
R216L/R	CARBON FILM 47 kohm 1/5 W J	3069473970	2

Ref. No	Description	Part No.	Q'ty
R217C/S	METAL FILM 330 kohm 1/5 W J	3029331970	2
R217L/R	METAL FILM 330 kohm 1/5 W J	3029331970	2
R218C/S	METAL FILM 100 ohm 1/5 W J	3029101970	2
R218L/R	METAL FILM 100 ohm 1/5 W J	3029101970	2
R219C/S	METAL FILM 220 ohm 1/5 W J	3029221970	2
R219L/R	METAL FILM 220 ohm 1/5 W J	3029221970	2
R220C/S	METAL FILM 120 ohm 1/5 W J	3029121970	2
R220L/R	METAL FILM 120 ohm 1/5 W J	3029121970	2
R221C/S	METAL FILM 4.7 kohm 1/5 W J	3029472970	2
R221L/R	METAL FILM 4.7 kohm 1/5 W J	3029472970	2
R222C/S	CARBON FILM 15 kohm 1/5 W J	3069153970	2
R222L/R	CARBON FILM 15 kohm 1/5 W J	3069153970	2
R223C/S	METAL FILM 22 ohm 1/5 W J	3029220970	2
R223L/R	METAL FILM 22 ohm 1/5 W J	3029220970	2
R224C/S	METAL FILM 22 ohm 1/5 W J	3029220970	2
R224L/R	METAL FILM 22 ohm 1/5 W J	3029220970	2
R225C/S	CARBON FILM 12 kohm 1/5 W J	3069123970	2
R225L/R	CARBON FILM 12 kohm 1/5 W J	3069123970	2
R226C/S	CARBON FILM 68 kohm 1/5 W J	3069683970	2
R227/R228	METAL FILM 2.2 kohm 1/5 W J	3029222970	2
R229	CARBON FILM 10 kohm 1/5 W J	3069103970	1
R230	CARBON FILM 47 kohm 1/5 W J	3069473970	1
R231	METAL FILM 1 kohm 1/5 W J	3029102970	1
R232	METAL FILM 1.5 kohm 1/5 W J	3029152970	1
R233	CARBON FILM 47 kohm 1/5 W J	3069473970	1
R234	CARBON FILM 100 kohm 1/5 W J	3069104970	1
R235/R236	METAL FILM 3.3 kohm 1/5 W J	3069332970	2
R237C/S	METAL FILM 1 kohm 1/5 W J	3029102970	2
R237L/R	METAL FILM 1 kohm 1/5 W J	3029102970	2
R238/R239	CARBON FILM 10 kohm 1/5 W J	3069103970	2
R240C/S	CEMENT 0.27 ohm 5 W J	3059027776	2
R240L/R	CEMENT 0.27 ohm 5 W J	3059027776	2
R241C/S	CARBON FILM 3 kohm 1/5 W J	3069302970	2
R241L/R	CARBON FILM 3 kohm 1/5 W J	3069302970	2
R242	METAL FILM 3.3 kohm 1/5 W J	3069332970	1
PCB7	**ASSEMBLY P.C.BOARD FRONT**		
	CAPACITORS		
C301	CERAMIC TUBULAR 0.1 uF 50 V	3519104935	1
C302	ELECTROLYTIC SG 47 uF 16 V M	3479347031	1
C303/C304	CERAMIC TUBULAR 0.1 uF 50 V	3519104935	2
C305	ELECTROLYTIC SG 10 uF 50 V M	3479310071	1
C306	CAP, BACK-UP 0.047 F 5.5 V	3438247315	1
C307/C308	MYLAR 0.047 uF 100 V J	3679473120	2
C315	ELECTROLYTIC SG 1 uF 50 V M	3479310971	1
C321	ELECTROLYTIC SG 10 uF 50 V M	3479310071	1
C351L/R	CERAMIC TUBULAR 100 pF 50 V	3519101935	2
C352L/R	CERAMIC TUBULAR 100 pF 50 V	3519101935	2
C354	ELECTROLYTIC SG 47 uF 16 V M	3479347031	1
C355/C356	CERAMIC TUBULAR 0.1 uF 50 V	3519104935	2
	CONNECTORS		
CN301	PLUG (FFC-52045-33)	4428509031	1
CN302	LEAD ASS'Y, 5P, 300mm	436205304332	1
	DIODES		
D301-D308	1N4148, Switching	2058321101	8
D311-D315	1N4148, Switching	2058321101	5
LED301	LED, SLR-34URCN49	2381257104	1
LED302	LED, SLR-34YCN49	2384525101	1
	INTEGRATED CIRCUIT		
IC301	UPD78043AGF-209-3B9	2139311117	1
	TRANSISTORS		
Q301	2SC3199Y, NPN	2208611109	1
Q302	KRA107N/DTA114YS	2238001103	1
Q303/Q30	DTC114YS	2208621106	2
Q305	KRA107N/DTA114YS	2238001103	1
Q306/Q30	DTC114YS	2208621106	2
Q308	KRA107N/DTA114YS	2238001103	1
Q311/Q31	DTC114YS	2208621106	2
Q313	NOT USED !		
Q314/Q31	DTC114TS	2208621108	2
	RESISTORS		
R301/R302	CARBON FILM 100 kohm 1/5 W J	3069109700	2
R304	CARBON FILM 10 kohm 1/5 W J	3069109700	1
R305-R307	CARBON FILM 100 kohm 1/5 W J	3069109700	3
R308	CARBON FILM 100 kohm 1/5 W J	3069109700	1
R309	METAL FILM 180 ohm 1/5 W J	3029189700	1
R310	METAL FILM 330 ohm 1 W J	3029334700	1
R311	CARBON FILM 100 kohm 1/5 W J	3069109700	1
R312-R315	METAL FILM 4.7 kohm 1/5 W J	3029479700	4

Ref. No	Description					Part No.	Q'ty
R316	NOT USED !						
R317	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R318-R327	CARBON FILM	100	kohm	1/5 W	J	3069104970	10
R331	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R333	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R334	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R335	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R336	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R337	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R338	METAL FILM	180	ohm	1/5 W	J	3029181970	1
R339/R340	CARBON FILM	68	kohm	1/5 W	J	3069683970	2
R341/R342	CARBON FILM	10	kohm	1/5 W	J	3069103970	2
R343	NOT USED !						
R344	NOT USED !						
R345	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R347	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R351L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R353	METAL FILM	75	ohm	1/5 W	J	3029750970	1
	MISCELLANEOUS						
SEN301	RMC MODULE (CRV1G342-185BD)					2408000180	1
X-TAL301	RESONATOR, CST4.19MGW-TF01					3938124006	1
18	HOLDER FL					6043010210	1
19	SWITCH TACT					4658003710	31
20	SWITCH ROTARY, ENCODER					4608400210	1
21	JACK RCA, 3P, VCR					4438109810	1
PCB8	**ASSEMBLY P.C.BOARD INPUT**						
	CAPACITORS						
C401	NOT USED !						
C402L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C403L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C404L/R	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C405L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C406L/R	CERAMIC TUBULAR	2200	pF	16 V		3519222915	2
C407L/R	MYLAR	0.0018	uF	100 V	J	3679182120	2
C408L/R	MYLAR	0.0056	uF	100 V	J	3679562120	2
C411L/R	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2
C412L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C413L/R	MYLAR	0.0018	uF	100 V	J	3679182120	2
C414	CERAMIC TUBULAR	100	pF	50 V		3519101935	1
C415L/R	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C416/R417	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C418L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C421L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C422L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C423L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C424L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C425L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C426L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C427L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C428L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C429L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C431L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C430	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
C431	NOT USED !						1
C432	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C433	ELECTROLYTIC SG	100	uF	16 V	M	3479310131	1
C434/C435	ELECTROLYTIC SG	470	uF	10 V	M	3479347121	2
C436	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
C441L/R	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C442L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C443L/R	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2
C445L/R	MYLAR	0.0022	uF	100 V	J	3679222120	2
C446L/R	POLY	0.1	uF	63 V	J	3633104187	2
C447L/R	POLY	0.1	uF	63 V	J	3633104187	2
C448	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C451	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1
C461L/R	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	1
C462L/R	CERAMIC TUBULAR	820	pF	50 V		3519821935	2
C463L/R	CERAMIC TUBULAR	100	pF	50 V		3519101935	2
C464L/R	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	2
C465L/R	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C471L/R	CERAMIC TUBULAR	150	pF	50 V		3519151935	2
	CONNECTORS						
CP302	PLUG (GIL-S-5P-S2T2)					4428516410	1
CN401	PLUG (35237-1210)					4428861112	1
CN402	PLUG (35237-1210)					4428861112	1
	DIODES						
D431	1N4148, Switching					2058322101	1
D451	ZENER, UZ 9.1V BSC					2258599107	1

Ref. No	Description					Part No.	Q'ty
	INTEGRATED CIRCUITS						
IC401	KIA4559P/KIA75559P					2168206104	1
IC421	TC9273N-007					2168307100	1
IC431	LA7952					2168317136	1
IC441	KIA4559P/KIA75559P					2168206104	
IC451	TDA7315D					2139035100	1
IC461	KIA4559P/KIA75559P					2168206104	1
	COILS						
L401L/R	INDUCTOR, 47uH					2648647082	2
	TRANSISTORS						
Q431	DTC114YS					2208622106	1
Q432/Q43	2SC3199Y, NPN					2208610109	2
	RESISTORS						
R401L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R402L/R	CARBON FILM	91	kohm	1/5 W	J	3069913970	2
R403L/R	CARBON FILM	91	kohm	1/5 W	J	3069913970	2
R404L/R	METAL FILM	820	ohm	1/5 W	J	3029821970	2
R405L/R	CARBON FILM	43	kohm	1/5 W	J	3069433970	2
R406L/R	CARBON FILM	560	kohm	1/5 W	J	3069564970	2
R407L/R	METAL FILM	560	ohm	1/5 W	J	3029561970	2
R408L/R	CARBON FILM	100	kohm	1/5 W	J	3069104970	2
R409L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R412-R414	METAL FILM	1	kohm	1/5 W	J	3029102970	3
R415	METAL FILM	15	ohm	1/5 W	J	3029150970	1
R421L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R422L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R423L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R424L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R425L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R426L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R431L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R432	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R433/R434	METAL FILM	75	ohm	1/5 W	J	3029750970	2
R435	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R436	METAL FILM	75	ohm	1/5 W	J	3029750970	1
R437	METAL FILM	390	ohm	1/5 W	J	3029391970	1
R438	METAL FILM	3.3	kohm	1/5 W	J	3029332970	1
R439	METAL FILM	390	ohm	1/5 W	J	3029391970	1
R441L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2
R442L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R443L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R444L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2
R445L/R	CARBON FILM	100	kohm	1/5 W	J	3069104970	2
R446/R447	CARBON FILM	6.8	kohm	1/5 W	J	3069682970	2
R448	METAL FILM	390	ohm	1/5 W	J	3029391970	1
R451	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R461L/R	METAL FILM	470	ohm	1/5 W	J	3029471970	2
R462L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R463L/R	METAL FILM	3.3	kohm	1/5 W	J	3029332970	2
R464L/R	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R465L/R	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R466L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R467L/R	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R471	NOT USED !						
R471L/R	CARBON FILM	15	kohm	1/5 W	J	3069153970	2
	MISCELLANEOUS						
37	JACK RCA, 4P					4438108130	2
38	JACK RCA, 9P					4438114520	1
PCB9	**ASSEMBLY P.C.BOARD SURROUND**						
	CAPACITORS						
C501	POLY	680	pF	50 V	J	3615681110	1
C502	POLY	0.1	uF	63 V	J	3633104187	1
C503	POLY	680	pF	50 V	J	3615681110	1
C504-C506	POLY	0.1	uF	63 V	J	3633104187	3
C507L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2
C508	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1
C510	CERAMIC TUBULAR	0.1	uF	50 V		3519104935	1
C511	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1
C512	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C513	MYLAR	0.0047	uF	100 V	J	3679472120	1
C514	ELECTROLYTIC SG	22	uF	16 V	M	3479322031	1
C515	ELECTROLYTIC SG	220	uF	10 V	M	3479322121	1
C516L/R	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	2
C517	POLY	0.1	uF	63 V	J	3633104187	1
C518	ELECTROLYTIC SG	220	uF	16 V	M	3479322131	1
C519	CERAMIC TUBULAR	470	pF	50 V		3519471935	1
C521	MYLAR	0.001	uF	100 V	J	3679102120	1
C522	MYLAR	0.0056	uF	100 V	J	3679562120	1
C523	MYLAR	0.047	uF	100 V	J	3679473120	1

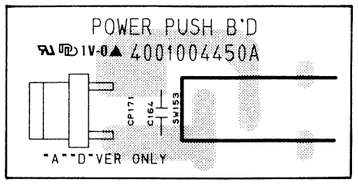
Ref. No	Description					Part No.	Q'ty
C524	MYLAR	0.68	uF	63 V	K	3679684297	1
C525/C526	MYLAR	0.22	uF	63V	K	3679224297	2
C527	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1
C528	MYLAR	0.22	uF	63V	K	3679224297	1
C529	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1
C531	MYLAR	0.22	uF	63V	K	3679224297	1
C532	POLY	0.1	uF	63 V	J	3633104187	1
C533/C534	MYLAR	0.047	uF	100 V	J	3679473120	2
C535/C536	POLY	0.1	uF	63 V	J	3633104187	2
C537/C538	MYLAR	0.022	uF	100 V	J	3679223120	2
C541	POLY	0.1	uF	63 V	J	3633104187	1
C544	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	1
C545	CERAMIC TUBULAR	560	pF	50 V		3519561935	1
C551	ELECTROLYTIC SG	220	uF	10 V	M	3479322121	1
C552/C553	CERAMIC TUBULAR	220	pF	50 V		3519221935	2
C554	MYLAR	0.0056	uF	100 V	J	3679562120	1
C555/C556	POLY	0.1	uF	63 V	J	3633104187	2
C557/C558	MYLAR	0.047	uF	100 V	J	3679473120	2
C561	ELECTROLYTIC SG	4.7	uF	50 V	M	3479347971	1
C562	CERAMIC TUBULAR	560	pF	50 V		3519561935	1
C563	MYLAR	0.0022	uF	100 V	J	3679222120	1
C565	ELECTROLYTIC SG	10	uF	50 V	M	3479310071	1
C566	CERAMIC TUBULAR	0.022	uF	25 V		3519223520	1
C571C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2
C572C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C573C/S	CERAMIC TUBULAR	560	pF	50 V		3519561935	2
C574C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2
C576C/S	ELECTROLYTIC SG	47	uF	16 V	M	3479347031	2
C577C/S	ELECTROLYTIC SG	1	uF	50 V	M	3479310971	2
C581-C584	CERAMIC TUBULAR	100	pF	50 V		3519101935	4
	CONNECTOR						
CN501	PLUG (35237-1810)					4428861118	1
	DIODES						
D501	ZENER, UZ 5.1V BSB					2258599103	1
D502	1N4148, Switching					2058322101	1
	INTEGRATED CIRCUITS						
IC501	NJW1102AFG1					2169020101	1
IC551	NJU9702G					2169020100	1
IC571	KIA4559P/KIA75559P					2168206104	1
IC572	TC9210P					2168007209	1
	RESISTORS						
R501	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R502/R503	CARBON FILM	15	kohm	1/5 W	J	3069153970	2
R504	CARBON FILM	7.5	kohm	1/5 W	J	3069752970	1
R505	CARBON FILM	47	kohm	1/5 W	J	3069473970	1
R506	CARBON FILM	7.5	kohm	1/5 W	J	3069752970	1
R507L/R	CARBON FILM	22	kohm	1/5 W	J	3069223970	2
R508	CARBON FILM	4.7	Mohm	1/5 W	J	3069475970	1
R511	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R512	METAL FILM	33	ohm	1/5 W	J	3029330970	1
R513	METAL FILM	270	ohm	1/5 W	J	3029271970	1
R514	METAL FILM	1	kohm	1/5 W	J	3029102970	1
R515/R516	CARBON FILM	10	kohm	1/5 W	J	3069103970	2
R517	METAL FILM	4.7	kohm	1/5 W	J	3029472970	1
R518	CARBON FILM	100	kohm	1/5 W	J	3069104970	1
R521	CARBON FILM	15	kohm	1/5 W	J	3069153970	1
R522	CARBON FILM	330	kohm	1/5 W	J	3069334970	1
R523	CARBON FILM	22	kohm	1/5 W	J	3069223970	1
R541	CARBON FILM	15	kohm	1/5 W	J	3069153970	1
R552	CARBON FILM	10	kohm	1/5 W	J	3069103970	1
R553/R554	CARBON FILM	15	kohm	1/5 W	J	3069153970	2
R555	METAL FILM	22	ohm	1/5 W	J	3029220970	1
R556	CARBON FILM	15	kohm	1/5 W	J	3069153970	1
R557	CARBON FILM	10	kohm	1/5 W	J	3069103970	1
R558	CARBON FILM	43	kohm	1/5 W	J	3069433970	1
R559	METAL FILM	22	ohm	1/5 W	J	3029220970	1
R560	CARBON FILM	1	Mohm	1/5 W	J	3069105970	1
R571C/S	METAL FILM	470	ohm	1/5 W	J	3029471970	2
R574C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R575C/S	CARBON FILM	5.6	kohm	1/5 W	J	3069562970	2
R576C/S	METAL FILM	1	kohm	1/5 W	J	3029102970	2
R577C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R578C/S	METAL FILM	2.4	kohm	1/5 W	J	3029242970	2
R581C/S	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R582C/S	METAL FILM	100	ohm	1/5 W	J	3029101970	2
R583	METAL FILM	1	kohm	1/5 W	J	3029102970	1
R583C/S	CARBON FILM	47	kohm	1/5 W	J	3069473970	2
R584-R586	METAL FILM	1	kohm	1/5 W	J	3029102970	3
	MISCELLANEOUS						
X-TAL551	RESONATOR, CSA2.0MG-TF01					3938124001	1
36	BRACKET INSERT					6165144210	1

NOTE

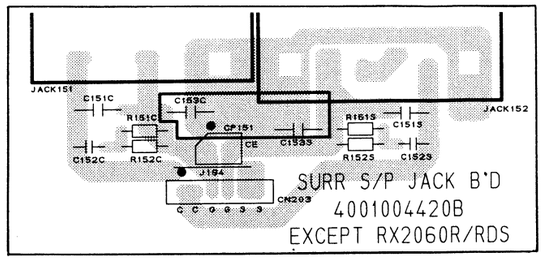
PRINTED CIRCUIT BOARDS

Model No. : R125/R125RDS

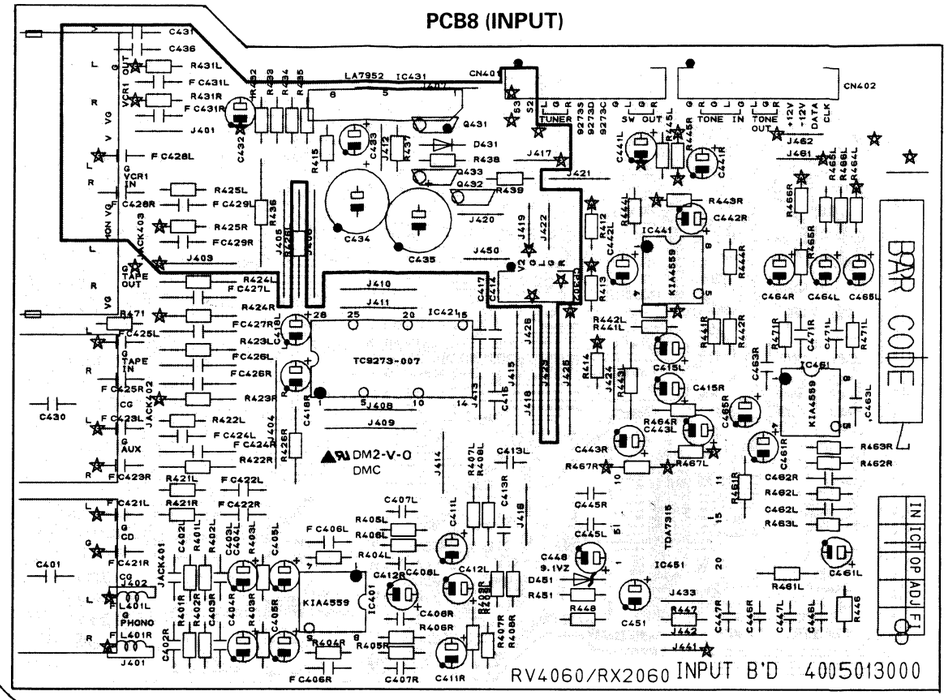
PCB4 (POWER SW)



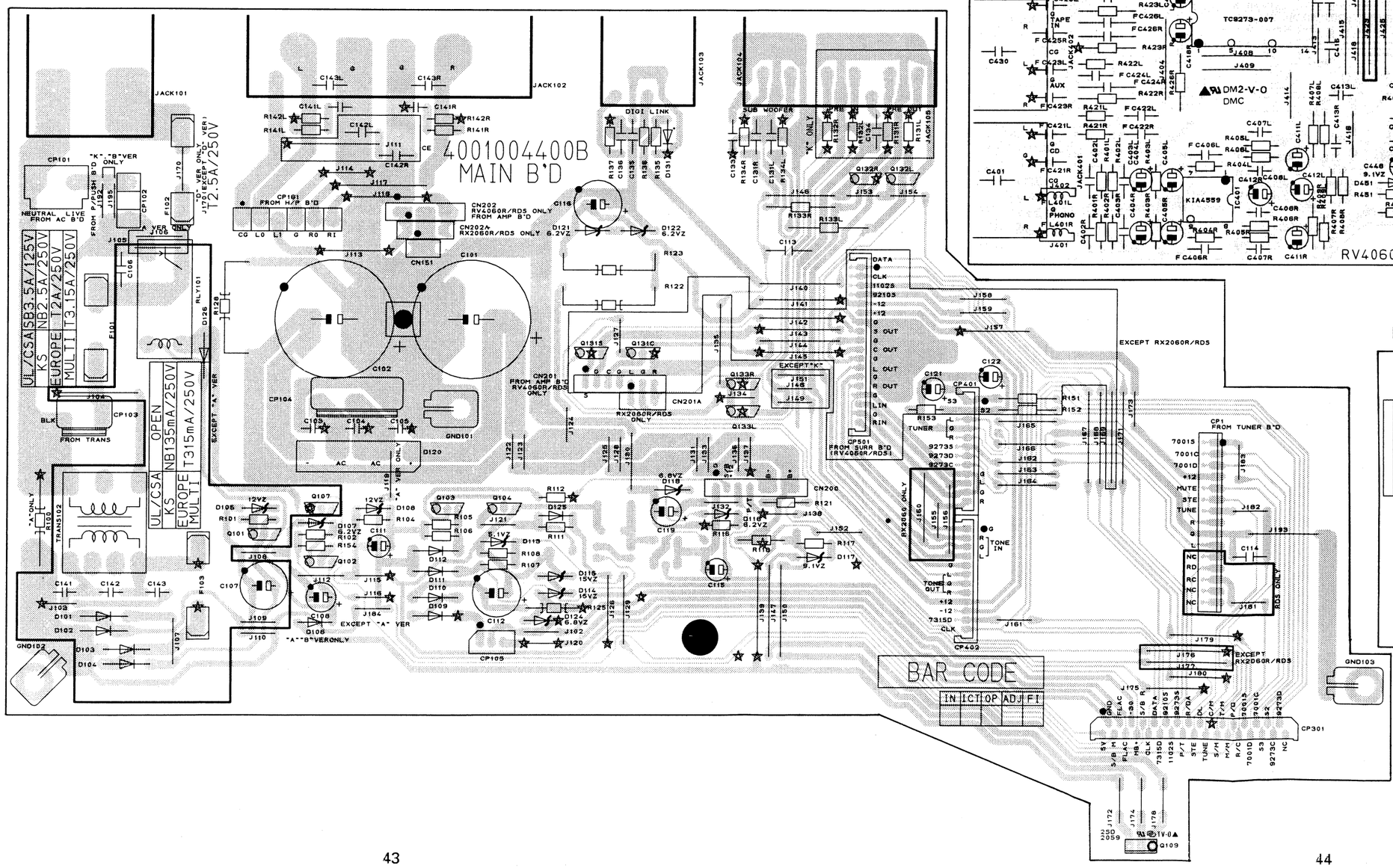
PCB3 (SURROUND SPEAKER)



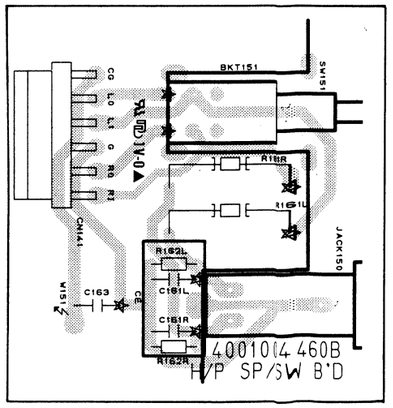
PCB8 (INPUT)



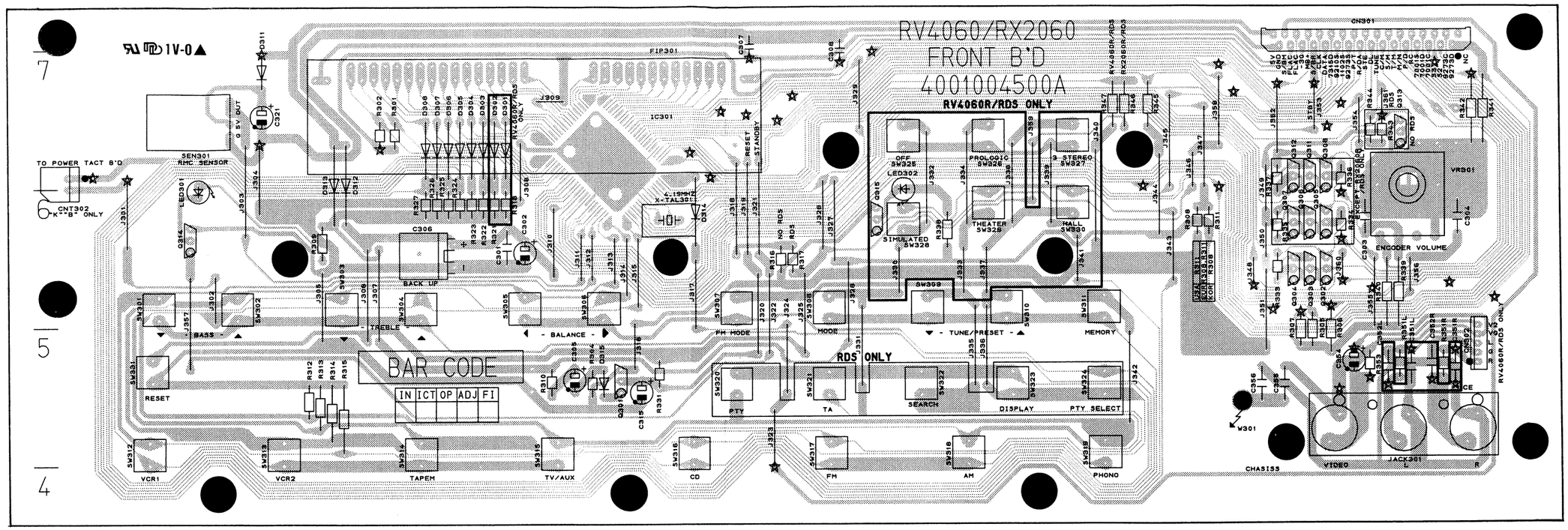
PCB2 (MAIN)



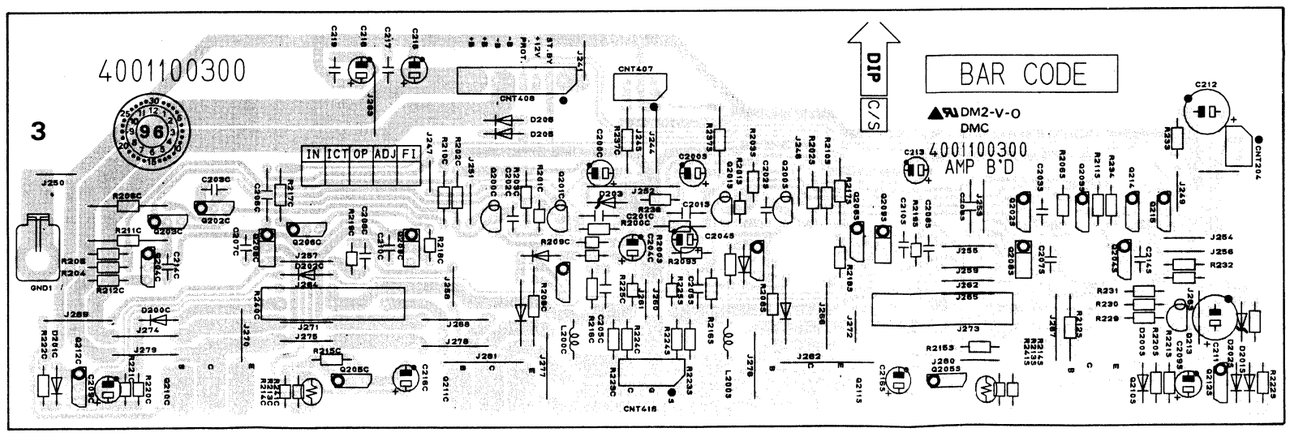
PCB5 (HEADPHONE & SPKR SW)



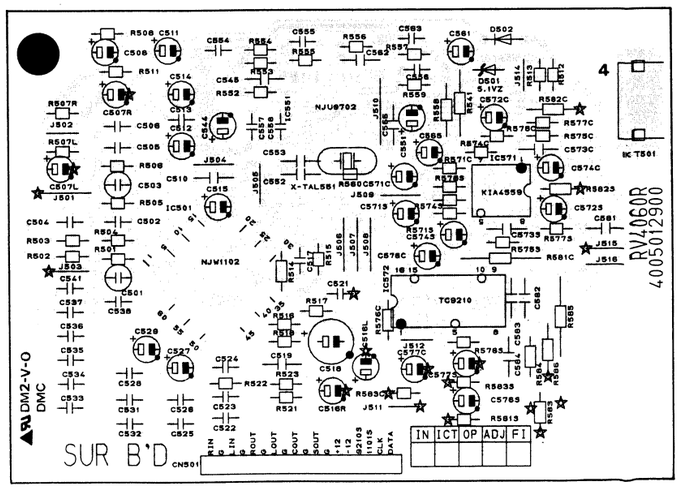
PCB7 (FRONT)



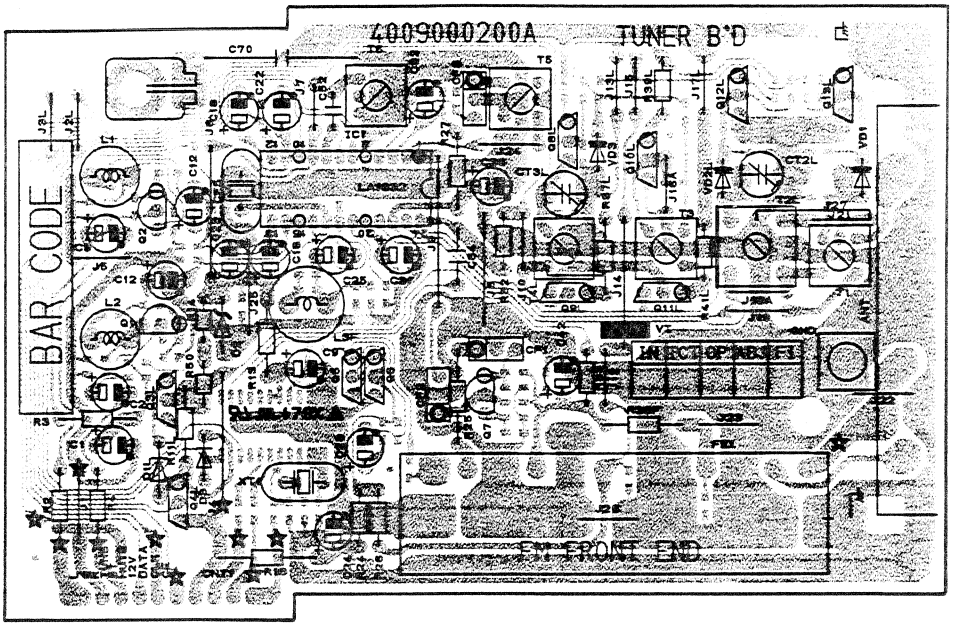
PCB6 (AMP)



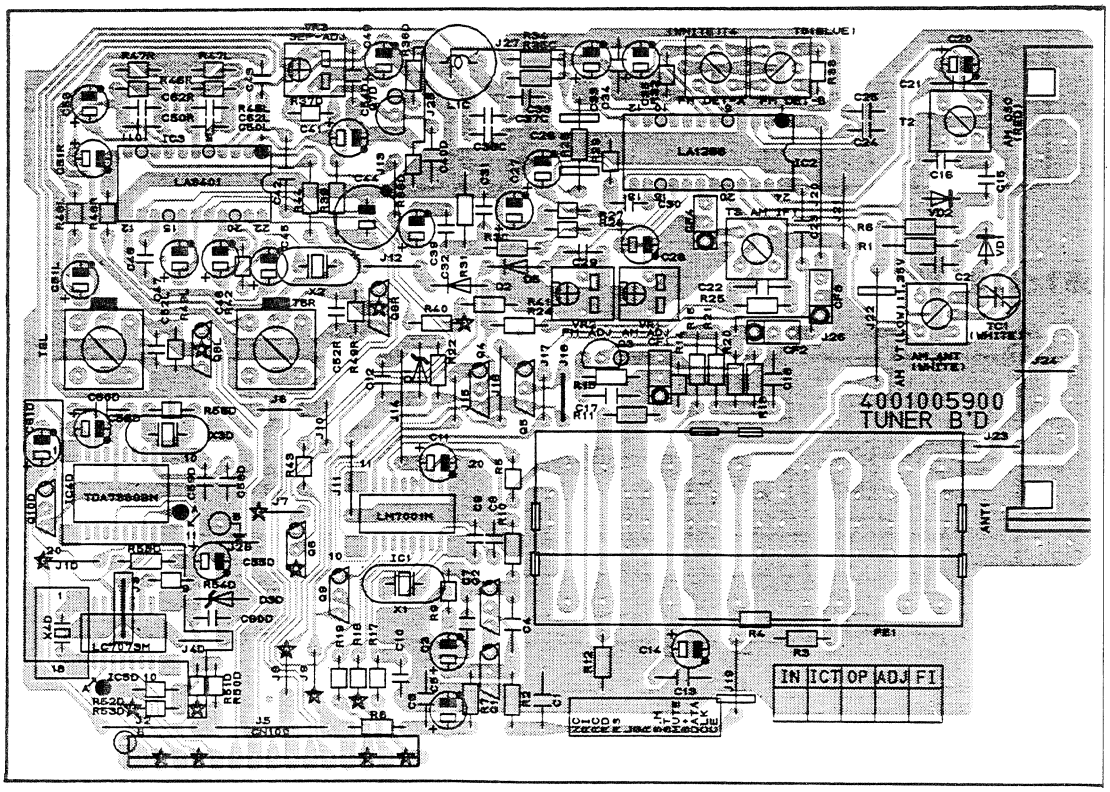
PCB9 (SURROUND)



PCB1 (TUNER) : USA/Canada Version

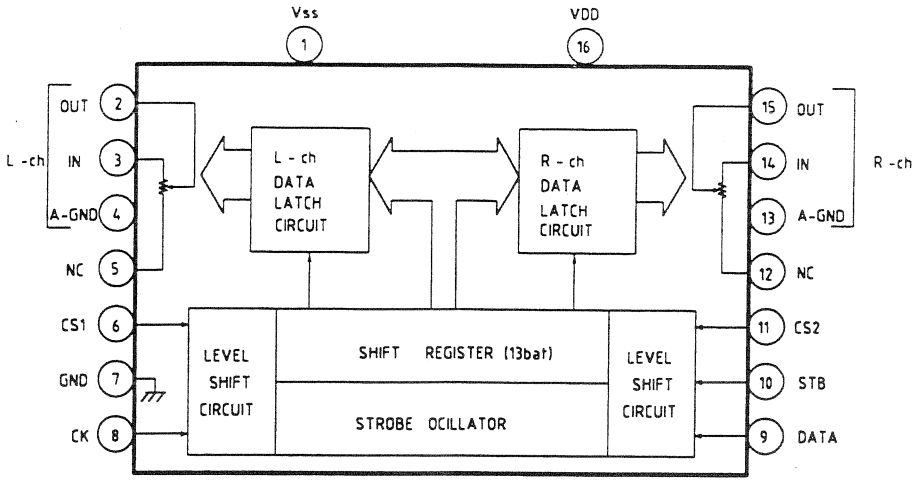


PCB1 (TUNER) : Europe Version

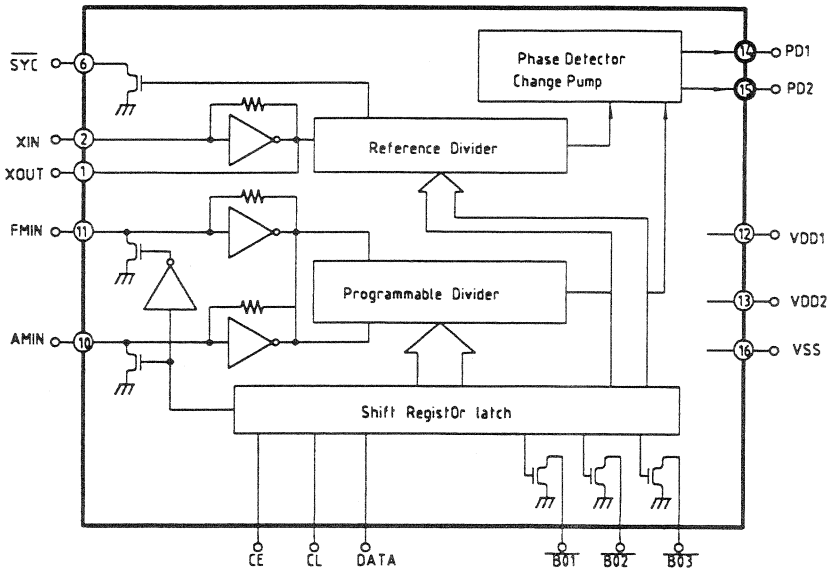


IC FUNCTIONAL BLOCK DIAGRAM

IC 572 : TC 9210P



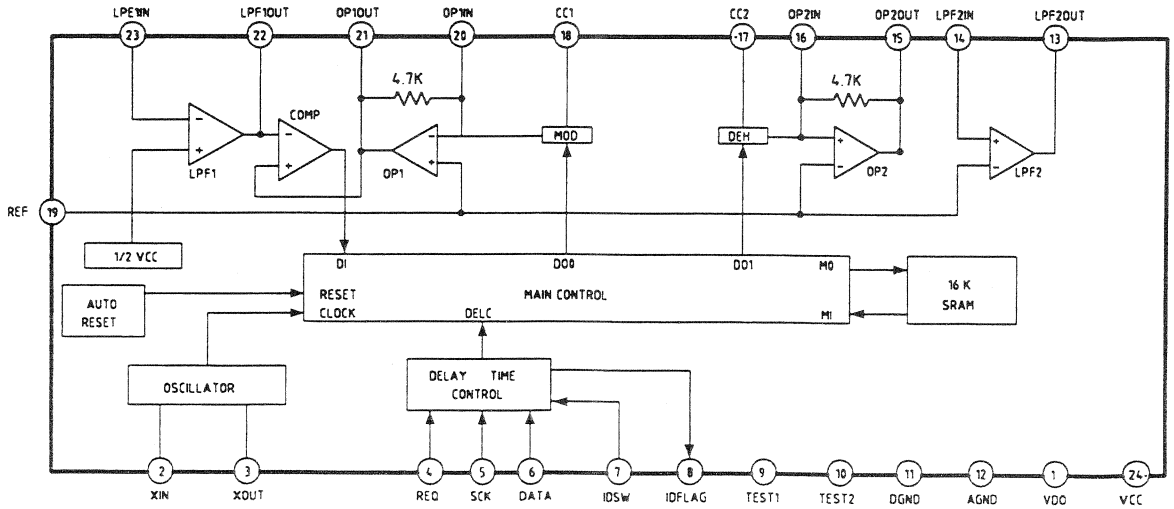
IC 1 : LM 7001M



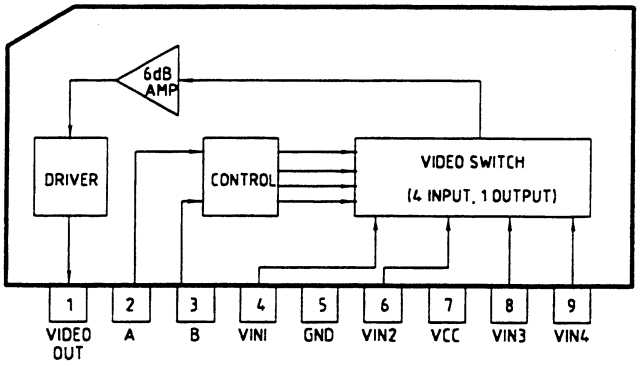
Pin Name

No	LM 7001	LM7001M
1	XOUT	XOUT
2	XIN	XIN
3	CE	NC
4	CL	CE
5	DATA	CL
6	SYC	DATA
7	B01	SYC
8	B02	B01
9	B03	B02
10	AMIN	B03
11	FMIN	NC
12	VDD1	AMIN
13	VDD2	NC
14	PD1	FMIN
15	PD2	NC
16	VSS	VDD1
17		VDD2
18		PD1
19		PD2
20		VSS

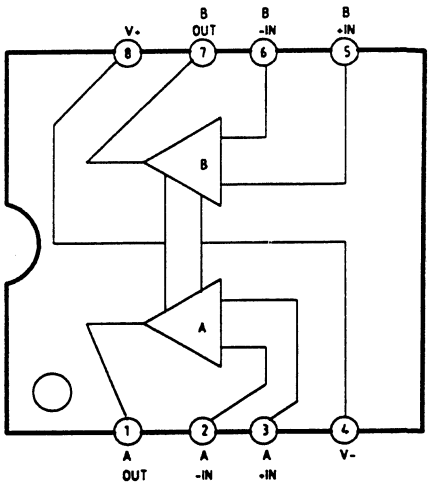
IC 551 : NJU9702G



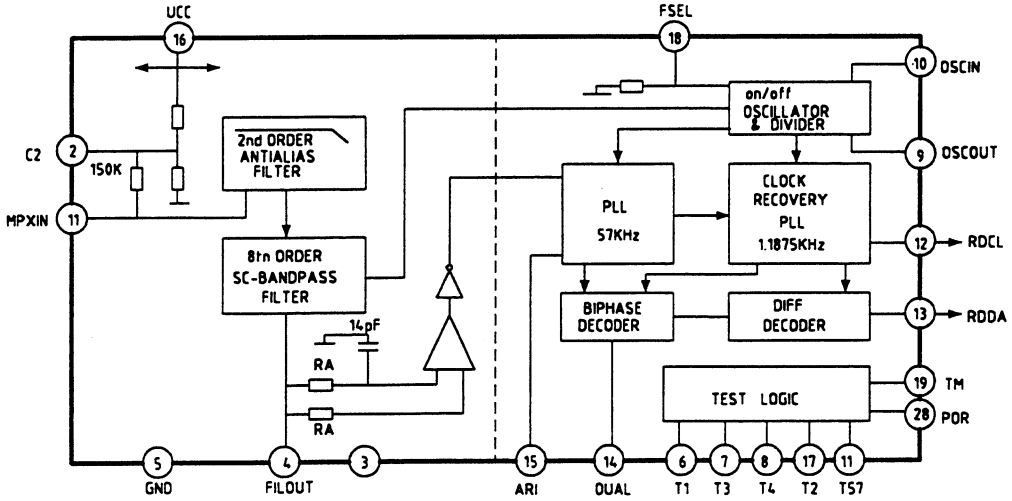
IC 431 : LA 7952



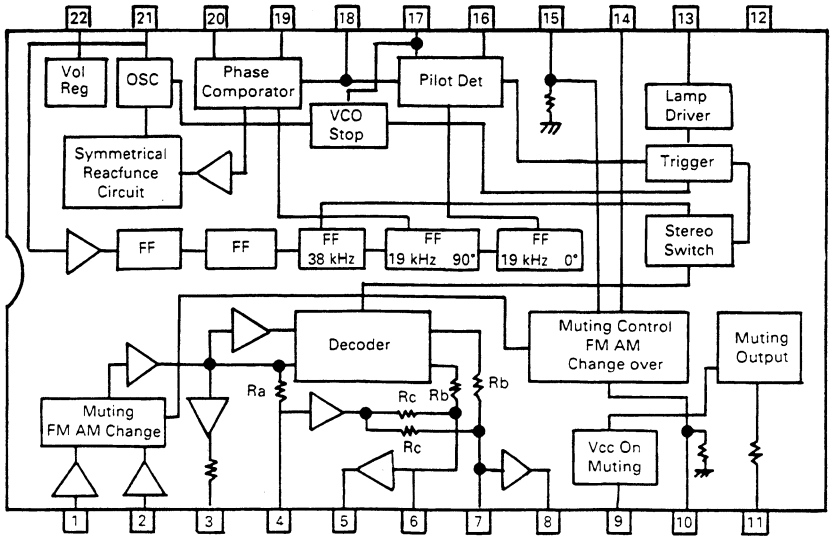
IC 401/IC441/IC461/IC571 : KIA4559P, KIA7559P



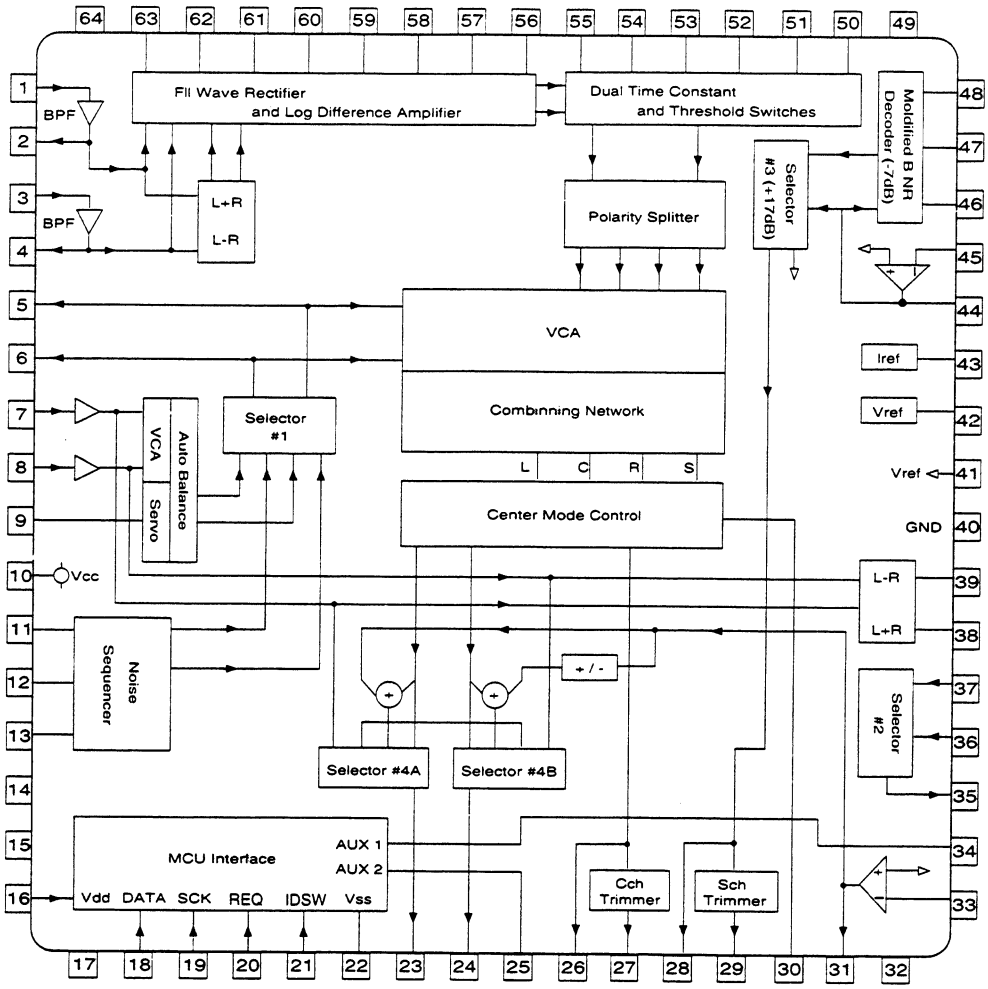
IC 4D : TDA7330BD



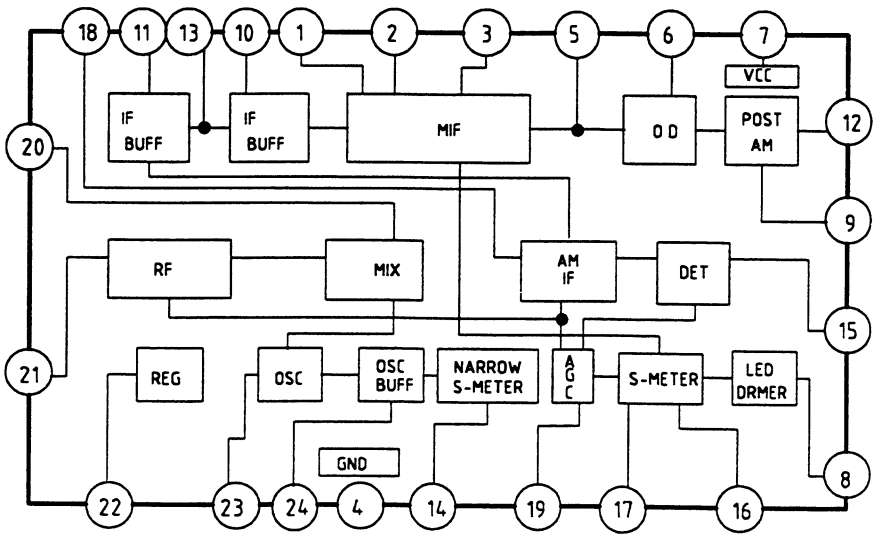
IC 3 : LA3401



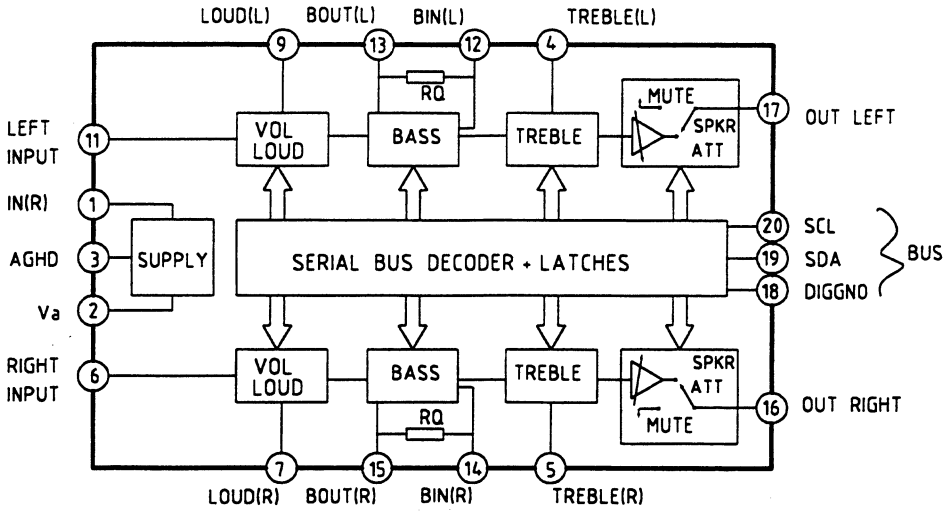
IC 501 : NJW1102AFG1



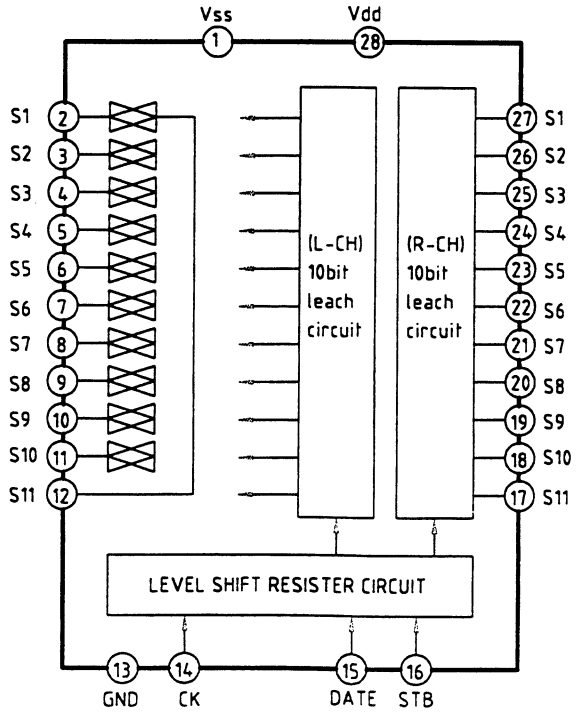
IC 2 : LA1266G



IC 451 : TDA7315D

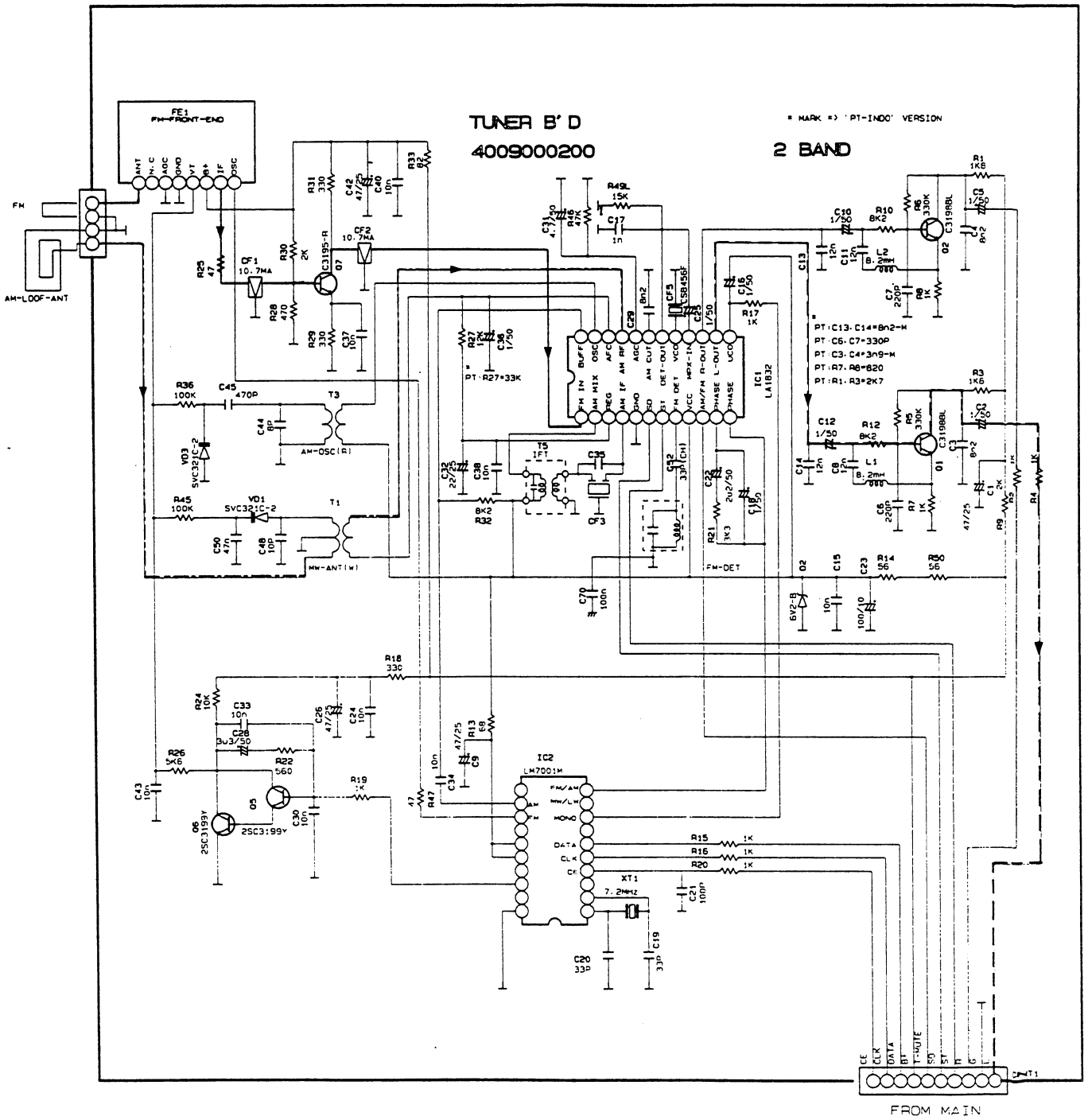


IC 421 : TC9273N-007



SCHEMATIC DIAGRAM (I)

PCB1 (TUNER) : USA/Canada Version



TUNER "L" ch SIGNAL

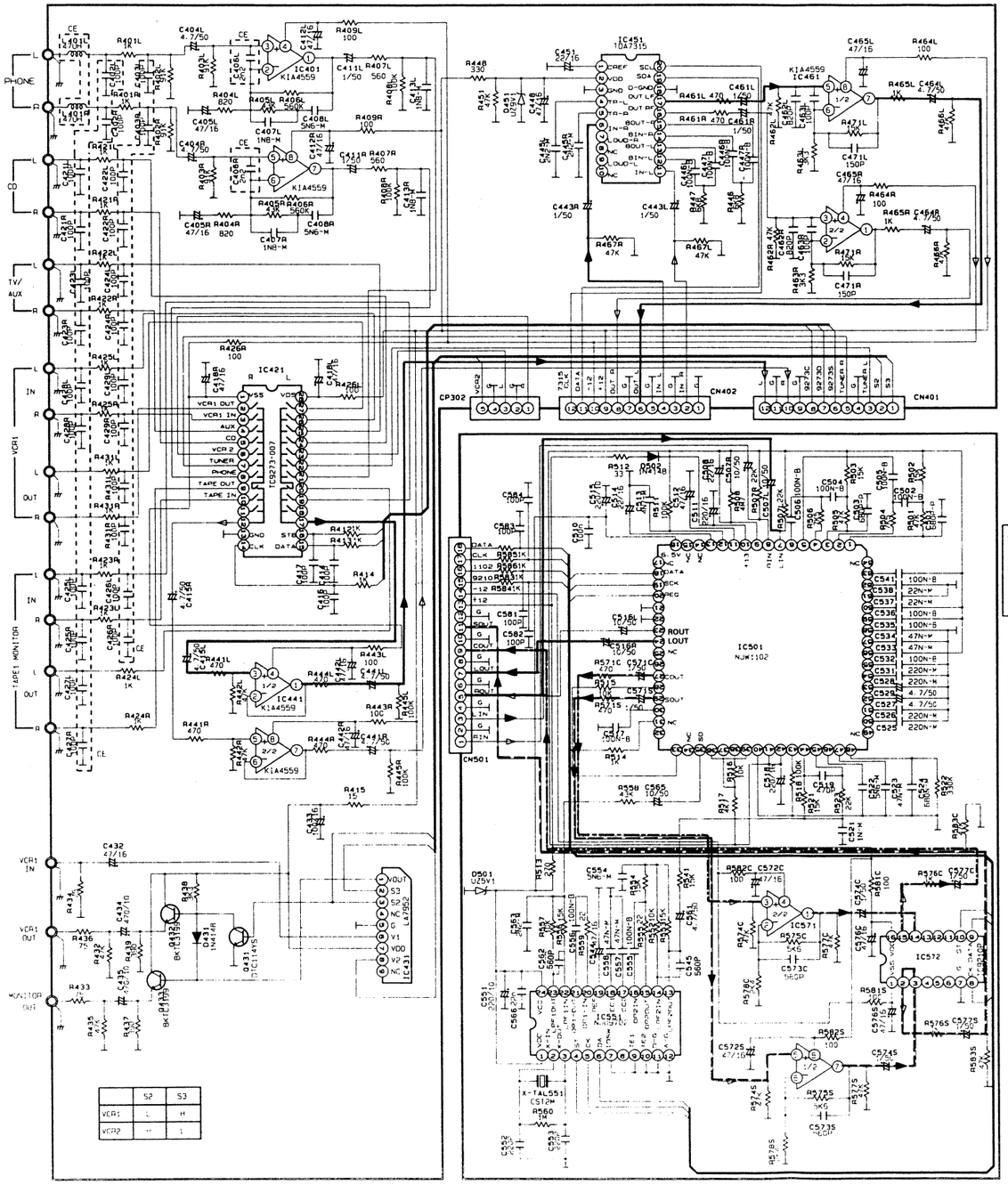
FM "L" CH. SIGNAL

AM SIGNAL

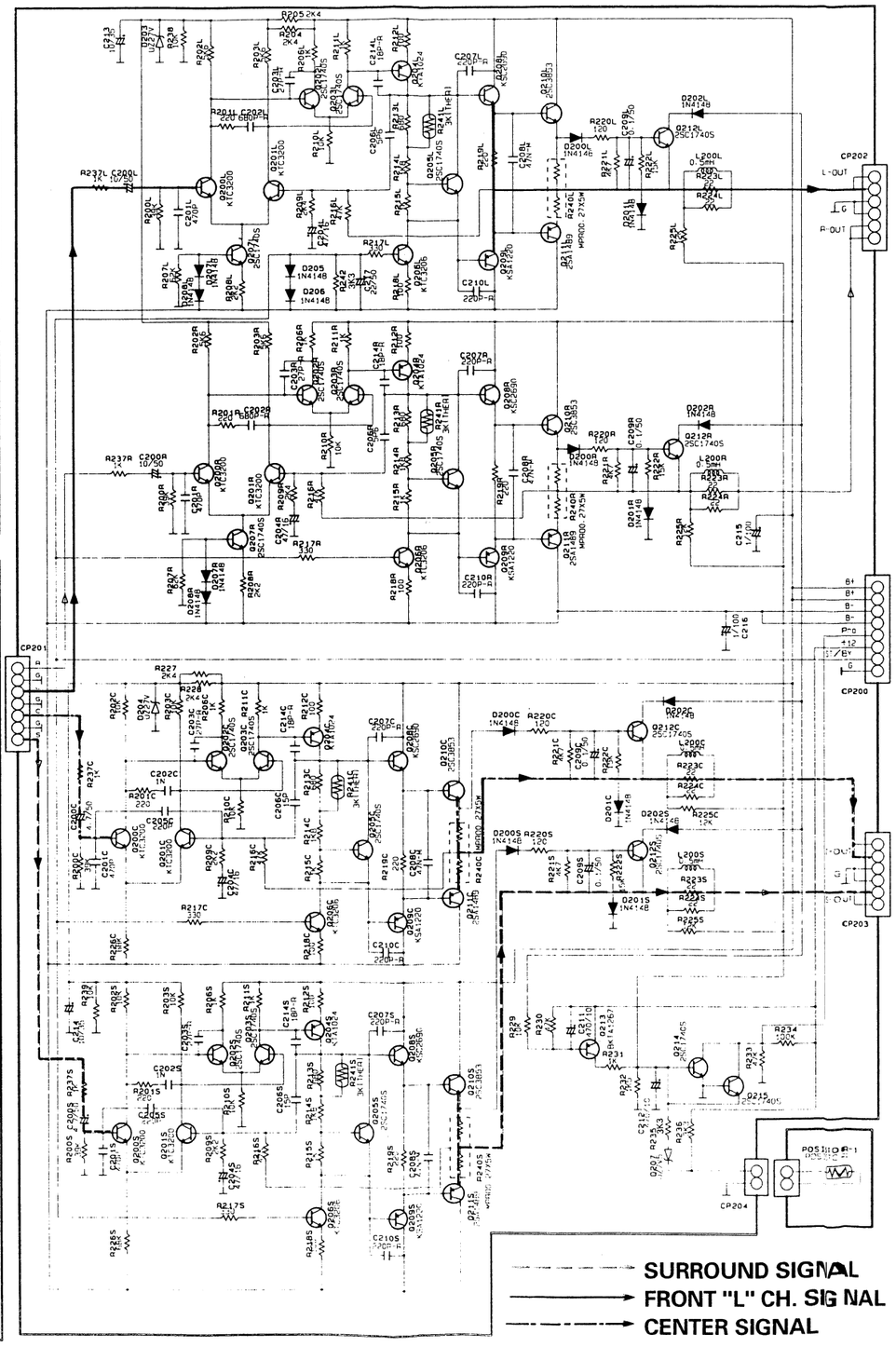
SCHEMATIC DIAGRAM (II)

Model No. : R125/R125RDS

PCB8 (INPUT)



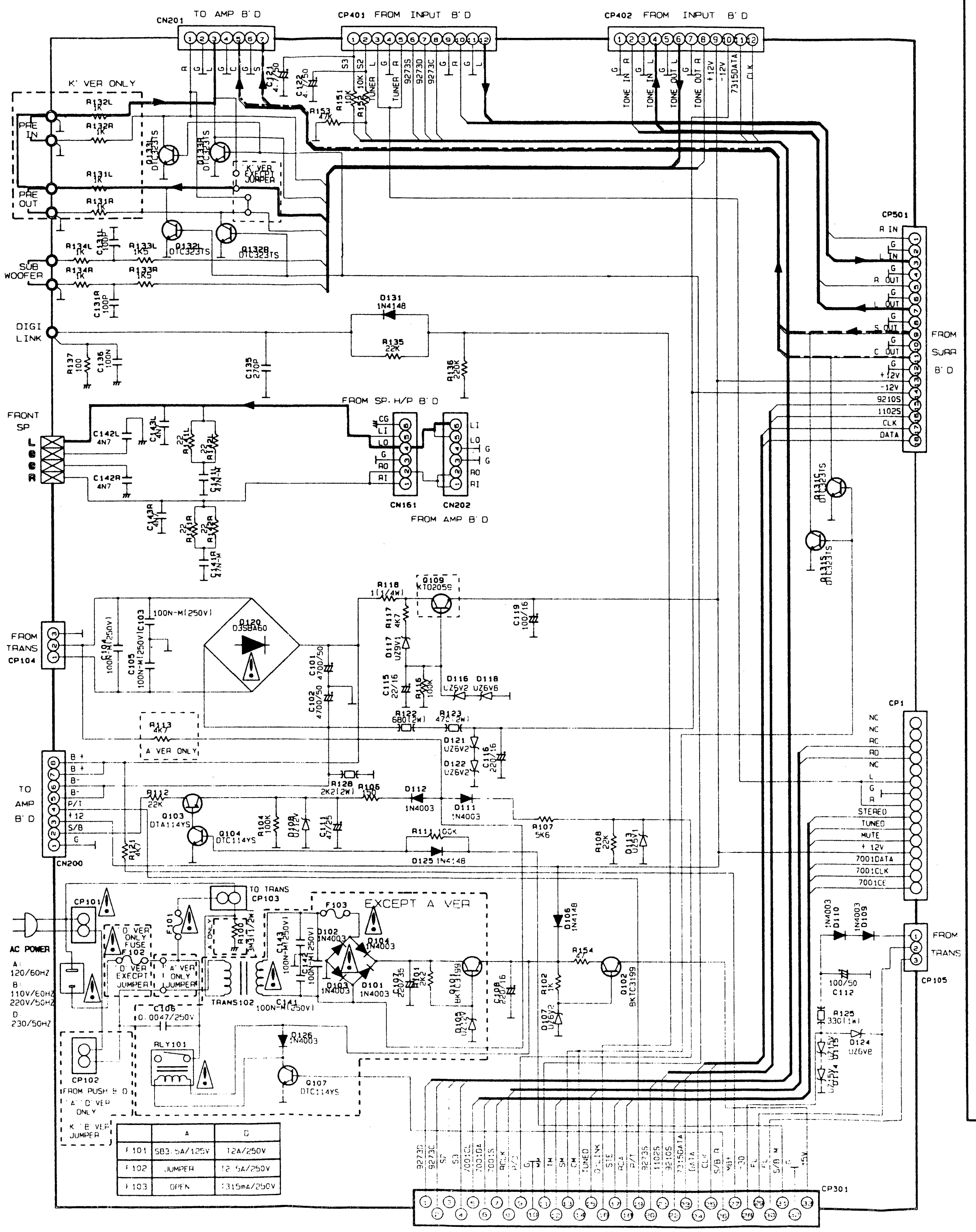
PCB6 (AMP)



SCHEMATIC DIAGRAM (III)

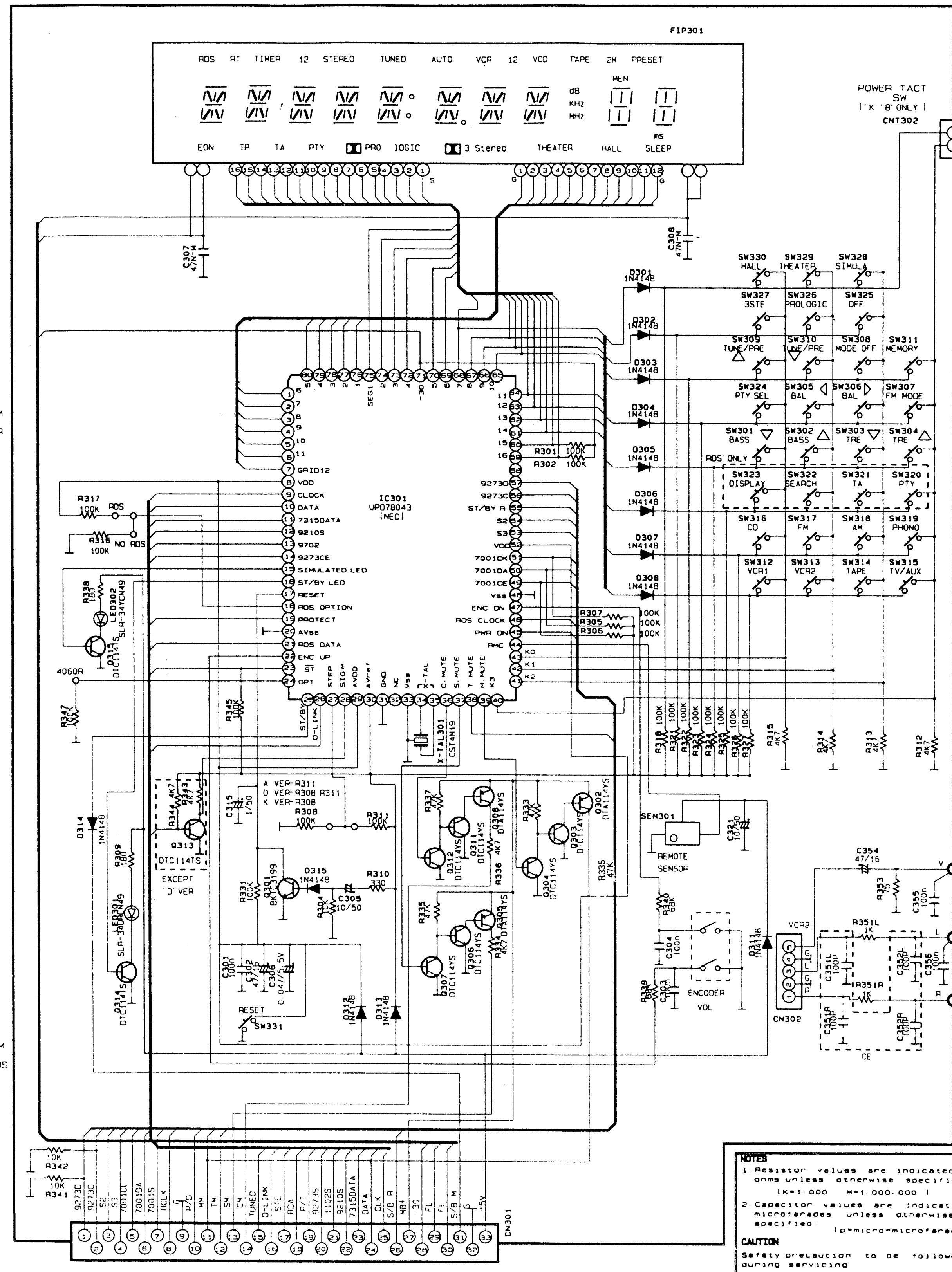
Model No. : R125/R125RDS

PCB2 (MAIN)



	A	D
F101	SB3.5A/125V	12A/250V
F102	JUMPER	T2.5A/250V
F103	OPEN	T315mA/250V

PCB7 (FRONT)



---→ SURROUND SIGNAL

——→ FRONT "L" CH. SIGNAL

-·-·-→ CENTER SIGNAL

NOTES

1. Resistor values are indicated in ohms unless otherwise specified (K=1,000 M=1,000,000)
2. Capacitor values are indicated in microfarades unless otherwise specified. (p=micro-microfarades)

CAUTION

Safety precaution to be followed during servicing

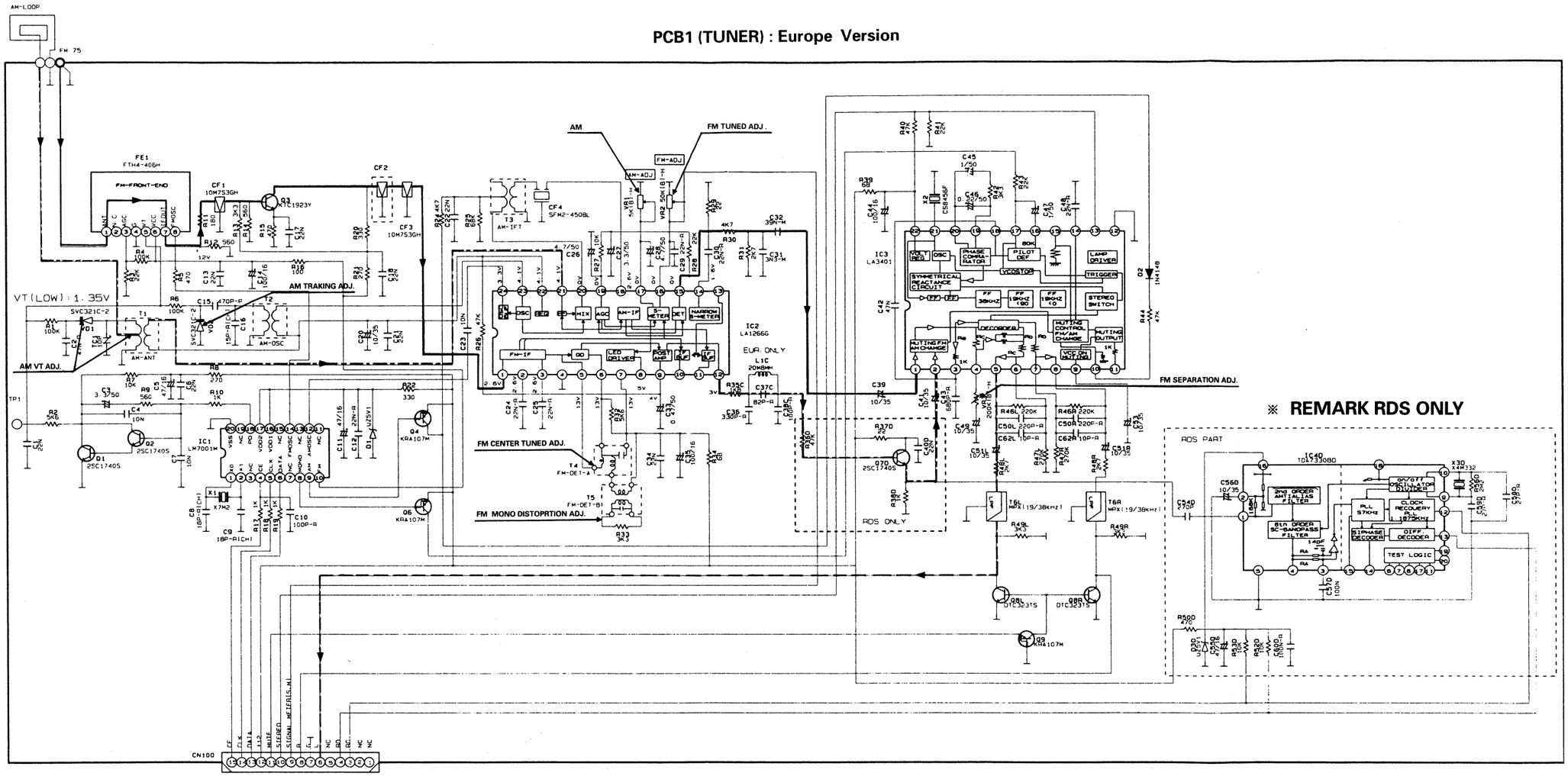
1) Since those parts marked with ⚠ are critical parts for safety, use only the one described in the parts list.

2) Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

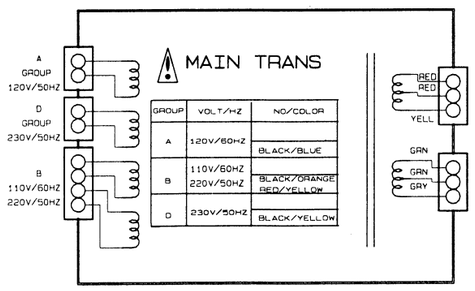
SCHEMATIC DIAGRAM

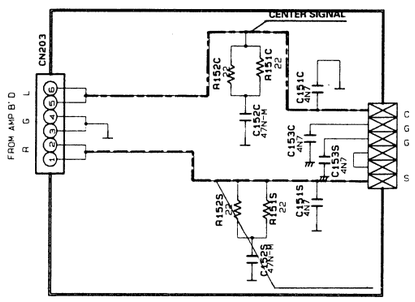
Model No. : R125/R125RDS

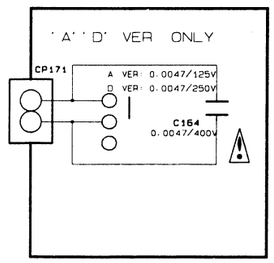
PCB1 (TUNER) : Europe Version

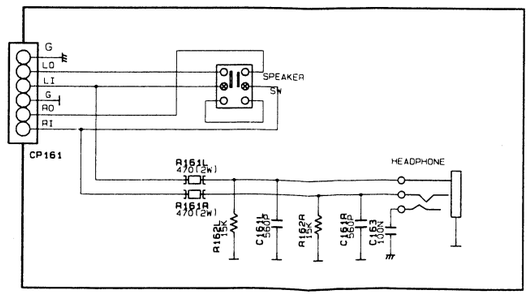


PCB3 (SURROUND SPEAKER)







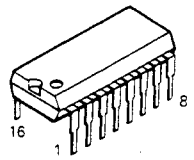


TUNER "L" ch SIGNAL
FM "L" CH SIGNAL
AM SIGNAL

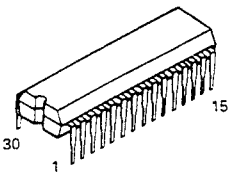
SURROUND SIGNAL
FRONT "L" CH. SIGNAL
CENTER SIGNAL

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS

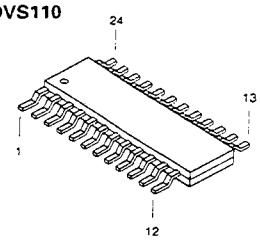
TC9210P



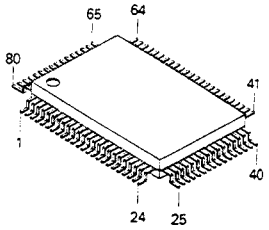
TC9273N-007



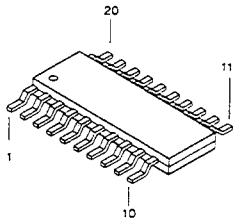
SM5874AM
CXA1645N-76
CDVS110



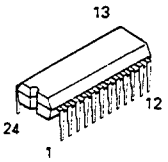
µPD78042
µPD78043AGF



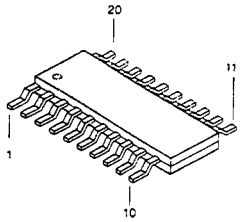
LM7001/M
TDA7330BD



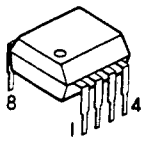
LA3401
LA1266



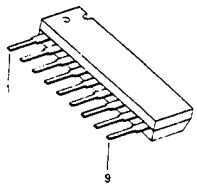
TDA7315D



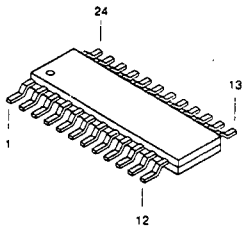
KIA4559P/KIA7555P



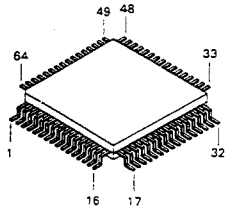
LA7952



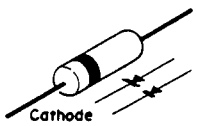
NJU9702G



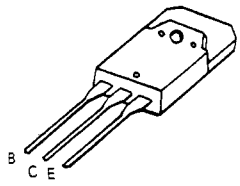
NJW1102AFG1



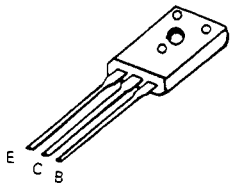
ZENER
IN4003
IN4148



2SC3853
2SA1489



KSC2690A
KSC1220A



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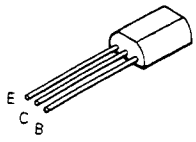
KTA949/KTA1024



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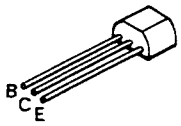

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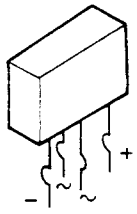

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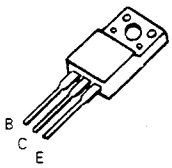

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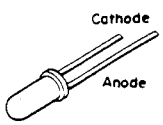

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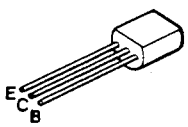

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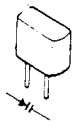

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